

Identification\_Information:

Citation:

Citation\_Information:

**Mike J. Bartholomew**  
**Biscayne Engineering**

Originator: Mike J. Bartholomew  
Publication\_Date: Unpublished material  
Publication\_Time: Unknown  
Title: Martin County Tape Down Wells (M1057)  
Edition: 1.0  
Series\_Information:  
Publication\_Information:  
Larger\_Work\_Citation:  
Citation\_Information:  
Series\_Information:  
Publication\_Information:

Description:

**Purpose**

Abstract: Crossrip Street, Martin County, Florida  
Purpose:

the well

To establish elevations on the well and on a disc set adjacent to  
and provide the results in NAVD-88 format in accordance  
with the CERP height modernization program

(yard)

Supplemental\_Information: Well appears to be located on private property

Time\_Period\_of\_Content:

**Survey Date**

Time\_Period\_Information:

Single\_Date/Time:

Range\_of\_Dates/Times:

Beginning\_Date: 20050801

Ending\_Date: 20050901

Multiple\_Dates/Times:

Currentness\_Reference: Date and Time Range of Field/Office Work

Status:

Progress: Complete

Maintenance\_and\_Update\_Frequency: Unknown

Spatial\_Domain:

Bounding\_Coordinates:

West\_Bounding\_Coordinate: -080°08' 46"

East\_Bounding\_Coordinate: -080°08' 46"

North\_Bounding\_Coordinate: +27°05' 44"

South\_Bounding\_Coordinate: +27°05' 44"

Keywords:

Theme:

Theme\_Keyword\_Thesaurus: None

Theme\_Keyword: Well Site

Theme\_Keyword: MARTIN

Theme\_Keyword: M1057

Place:

Place\_Keyword\_Thesaurus: None

Place\_Keyword: Well Site

Place\_Keyword: Martin County, Florida

Place\_Keyword: Crossrip Street

Place\_Keyword: Gomez Grant

Stratum:

Temporal:

Access\_Constraints: Well appears to be located on private property (yard), but at  
time of survey, there was no fence

Use\_Constraints: None

Point\_of\_Contact:

Contact\_Information:

**Elvie Ebanks**

Contact\_Person\_Primary:

Contact\_Person: Elvie Ebanks

Contact\_Organization: South Florida Water Management

**SFWMD**

District

Contact\_Organization\_Primary:

Contact\_Position: Project Manager

Contact\_Address:

Address\_Type: mailing and physical address

Address: 3301 Gun Club Road

City: West Palm Beach

State\_or\_Province: FL

M1057.gen

Postal\_Code: 33406

Country: USA

Contact\_Voice\_Telephone: (561) 753-2400 x4717

Contact\_Facsimile\_Telephone: (561) 791-4093

Security\_Information:

Cross\_Reference:

Citation\_Information:

Series\_Information:

Publication\_Information:

Data\_Quality\_Information:

Attribute\_Accuracy:

Attribute\_Accuracy\_Report:

## Equipment Used

This Survey was prepared using GPS and Leveling instruments. The horizontal location of the well was established using GPS.

The vertical data was collected using Level Wild NA-2. Coordinates are based on the Florida State Plane Coordinate System, East Zone, NAD 83/90. Elevations based on NAVD88

Logical\_Consistency\_Report:

Horizontal data was established using NGS control points AJ5260 (GCY D18) and AJ5261 (GCY D19).

Vertical data was established using NGS benchmarks AF7555 (872 2414 H) and AF6781 (PINE RM 3).

Coordinates are based on the Florida State Plane Coordinate System, East Zone, NAD 83/90.

Elevations are based on NAVD88.

Completeness\_Report:

## Project Results

Horizontal location taken at approximate center of well.

Lat. +27°05' 43.934"

Long. -080°08' 45.840"

N 1004843.110

E 933994.789

New leveled elevations.

New site benchmark "M1057" is a standard S.F.W.M.D. aluminum disc set in a concrete monument on the North side of Crossrip Street adjacent to the well.

Disc Elevation is 14.33' (NAVD88)

Top of Pipe (well M1057) Elevation is 14.41' (NAVD88) based on NGS NAVD88 adjustment of vertical network.

Origin of NAVD88 elevation for BM "M1057" and well

"M1057" is closed bench level circuit through NGS benchmarks AF7555 (872 2414 H) and AF6781 (PINE RM 3)

Well is situated North of S.E. Bridge Road (S.R. 708), South of Cove Road, East of S.E. Dixie Highway (A1A),

in the Gomez Grant, Hobe Sound, Martin County, Florida TO REACH the well from the intersection of Bridge Road

(S.R. 708) and U.S. 1 (S.E. Federal Highway), travel East on Bridge Road for 0.35 miles to the intersection

with A1A (S.E. Dixie Highway). Turn left and proceed North on A1A for 2.5 miles to the intersection with

Crossrip Street. Turn right and proceed East on Crossrip Street for 0.15 miles to the well on the right (South).

Well is situated 21.4 feet (more or less) South of the centerline of Crossrip Street, 15.4 feet (more or less)

West of the West edge of driveway for residence #8000, and 53 feet South of a SFWMD disc stamped "M1057 2005".

Well is situated at the Northwest corner of the yard for residence #7990. Well is a 2-1/2" diameter rusted metal pipe protruding 2" above natural grade.

Positional\_Accuracy:

Horizontal\_Positional\_Accuracy:

Horizontal\_Positional\_Accuracy\_Report:

## Horizontal

The horizontal position of the well "M1057" was established using differential GPS. NGS points AJ5260 (GCY D18) and AJ5261 (GCY D19) were used as a source of horizontal control.

Quantitative\_Horizontal\_Positional\_Accuracy\_Assessment:

Horizontal\_Positional\_Accuracy\_Value: 1 meter

Horizontal\_Positional\_Accuracy\_Explanation: The intended

M1057.gen

horizontal positional accuracy for this survey is 1 meter

Vertical\_Positional\_Accuracy:

Vertical\_Positional\_Accuracy\_Report:

### Level Line

A level line was run originating on NGS control point AF7555 (872 2414 H) with NAVD-88 elevation, running through well "M1057" and terminated on point AF6781 (PINE RM 3) in accordance with Florida Minimum Technical Standards.

Quantitative\_Vertical\_Positional\_Accuracy\_Assessment:

Vertical\_Positional\_Accuracy\_Value: 0.03 feet

Vertical\_Positional\_Accuracy\_Explanation: A bench level

circuit was performed between AF7555 (872 2414 H) and AF6781 (PINE RM 3), running through well "M1057" in accordance with Florida Minimum Technical Standards (Chapter 61g17-6, FAC). Length of benchmark run is 0.44 miles. Allowable error is 0.03 feet. Achieved Accuracy is 0.03 feet.

Lineage:

Source\_Information:

Source\_Citation:

Citation\_Information:

Series\_Information:

Publication\_Information:

Larger\_Work\_Citation:

Citation\_Information:

Series\_Information:

Publication\_Information:

Source\_Time\_Period\_of\_Content:

Time\_Period\_Information:

Single\_Date/Time:

Range\_of\_Dates/Times:

Multiple\_Dates/Times:

Process\_Step:

Process\_Description:

The horizontal work was performed using Ashtech GPS receivers. The vertical work was performed using level

Wild

N-A2

Process\_Date: 20050823

Process\_Time: 09000000

Process\_Contact:

Contact\_Information:

Contact\_Person\_Primary:

Contact\_Organization\_Primary:

Contact\_Address:

Spatial\_Data\_Organization\_Information:

Spatial\_Reference\_Information:

Horizontal\_Coordinate\_System\_Definition:

Geographic:

Planar:

Map\_Projection:

Albers\_Conical\_Equal\_Area:

Azimuthal\_Equidistant:

Equidistant\_Conic:

Equiangular:

General\_Vertical\_Near-sidereal\_Perspective:

Gnomonic:

Lambert\_Azimuthal\_Equal\_Area:

Lambert\_Conformal\_Conic:

Mercator:

Modified\_Stereographic\_for\_Alaska:

Miller\_Cylindrical:

Oblique\_Mercator:

Oblique\_Line\_Point:

Orthographic:

Polars\_Stereographic:

Polynomial:

Robinson:

Sinusoidal:

van\_der\_Grinten:

Space\_Oblique\_Mercator\_(Landsat):

Stereographic:

M1057.gen  
 Transverse\_Mercator:  
 van\_der\_Grinten:  
 Grid\_Coordinate\_System:  
 Universal\_Transverse\_Mercator:  
 Transverse\_Mercator:  
 Universal\_Polar\_Stereographic:  
 Polar\_Stereographic:  
 StatePlane\_Coordinate\_System:  
 Lambert\_Conformal\_Conic:  
 Transverse\_Mercator:  
 Oblique\_Mercator:  
 Oblique\_Line\_Point:  
 Polyconic:  
 ARC\_Coordinate\_System:  
 Equi\_rectangular:  
 Azimuthal\_Equidistant:  
 Local\_Planar:  
 Planar\_Coordinate\_Information:  
 Coordinate\_Representation:  
 Distance\_and\_Bearing\_Representation:  
 Local :  
 Geodetic\_Model :  
 Vertical\_Coordinate\_System\_Definition:  
 Altitude\_System\_Definition:  
 Depth\_System\_Definition:  
 Entity\_and\_Attribute\_Information:  
 Detailed\_Description:  
 Entity\_Type:  
 Attribute:  
 Attribute\_Domain\_Values:  
 Attribute\_Value\_Accuracy\_Information:  
 Overview\_Description:  
 Distribution\_Information:  
 Distributor:  
 Contact\_Information:  
 Contact\_Person\_Primary:  
 Contact\_Organization\_Primary:  
 Contact\_Address:  
 Standard\_Order\_Process:  
 Digital\_Form:  
 Digital\_Transfer\_Information:  
 Digital\_Transfer\_Option:  
 Online\_Option:  
 Computer\_Contact\_Information:  
 Network\_Address:  
 Dialup\_Instructions:  
 Offline\_Option:  
 Recording\_Capacity:  
 Available\_Time\_Period:  
 Time\_Period\_Information:  
 Single\_Date/Time:  
 Range\_of\_Dates/Times:  
 Multiple\_Dates/Times:  
 Metadata\_Reference\_Information:  
 Metadata\_Date: 20050823  
 Metadata\_Contact:  
 Contact\_Information:  
 Contact\_Person\_Primary:  
 Contact\_Person: Mike J. Bartholomew  
 Contact\_Organization: Biscayne Engineering Company, Inc.  
 Contact\_Organization\_Primary:  
 Contact\_Position: Project Surveyor  
 Contact\_Address:  
 Address\_Type: mailing and physical address  
 Address: 529 W. Fieger Street  
 City: Miami  
 State\_or\_Province: FL  
 Postal\_Code: 33130  
 Country: USA  
 Contact\_Voice\_Telephone: (305) 324-7671

M1057.gen

Contact\_Facsimile\_Telephone: (305) 324-0809

Contact\_Electronic\_Mail\_Address: mi keb@bi scayneengi neeri ng. com

Hours\_of\_Service: 8:00 AM to 5:00 PM EST

Metadata\_Standard\_Name: FGDC Content Standards for Digital Geospatial Metadata

Metadata\_Standard\_Version: 1.0

Metadata\_Time\_Convention: Local time

Metadata\_Security\_Information:

# M-1057



**Biscayne Engineering Company, Inc.**  
**Date of Photo: 09-12-05**  
**View: Looking Southwest along SE Crossrip St. from**  
**SE Gomez Ave (Well on left side of street, benchmark**  
**on right side)**

**M-1057**



**Biscayne Engineering Company, Inc.  
Date of Photo: 09-12-05  
View: Facing Southwest, Well M-1057 near  
tree, residence #7900 in background**

# M-1057



**Biscayne Engineering Company, Inc.**  
**Date of Photo: 09-12-05**  
**View: Well M-1057 (with cap removed)**



# M-1057



**Biscayne Engineering Company,  
Inc.  
Date of Photo: 09-12-05  
View: Benchmark "M-1057 2005"**

A. REDERO  
T. LOPEZ  
N. CEFEDA

#03-77478  
S.F.W.M.D  
"SITE-A"

8/3/05

( ESTABLISH  
ELEV. ON WELL  
M1039 )

| STA   | BS                      | MEAN  | HI       | FS                       | MEAN  |
|-------|-------------------------|-------|----------|--------------------------|-------|
| BM    | 9.370<br>7.410<br>5.450 | 7.410 | 22.440 ✓ |                          |       |
| TP#1  |                         |       |          | 1.330<br>0.720<br>0.110  | 0.720 |
| SHAKE | 8.170<br>6.690<br>5.210 | 6.690 | 28.410 ✓ |                          |       |
| TP#2  |                         |       |          | 10.790<br>9.350<br>7.710 | 9.350 |
| SHAKE | 3.810<br>5.220<br>0.710 | 2.260 | 21.320 ✓ |                          |       |
| TP#3  |                         |       |          | 8.920<br>7.400<br>5.850  | 7.400 |

| ELEV     | BM<br>ELEV | DESC  |
|----------|------------|---|
|          | 15.03      | NGS # AD 6243<br>FND DISC STAMPED<br>MAR 10 FLDNR.<br>78.2' FT W. OF US 1 S.E. LANE<br>450' FT N. OF COUNTY LINE<br>NAVD 83 |
| 21.720 ✓ |            | SET CUT NL  |
|          |            | SET CUT NL  |
| 19.060 ✓ |            | SET CUT NL  |
|          |            | SET CUT NL  |
| 15.920 ✓ |            | SET CUT NL  |

SAME  
CREW

#03-77478

S. F. W. M. D

"SITE-A"

8/3/05

(ELEV. CONT.)

| STA   | BS                      | MEAN  | HI       | FS                      | MEAN  | ELEV.    | BM<br>ELEV | DESC                     |
|-------|-------------------------|-------|----------|-------------------------|-------|----------|------------|--------------------------|
| SHAKE | 5.540<br>4.685<br>3.830 | 4.685 | 18.605 ✓ |                         |       |          |            | SET CUT NL               |
| TP#4  |                         |       |          | 1.960<br>1.215<br>0.470 | 1.215 | 17.39 ✓  |            | SET 80 D SPIKE           |
| SHAKE | 7.270<br>6.540<br>5.810 | 6.540 | 23.93 ✓  |                         |       |          |            | SET 80 D SPIKE           |
| TP#5  |                         |       |          | 5.500<br>4.060<br>2.620 | 4.060 | 19.87 ✓  |            | SET 80 D SPIKE           |
| SHAKE | 5.585<br>4.640<br>3.675 | 4.64  | 24.51 ✓  |                         |       |          |            | SET 80 D SPIKE           |
| TP#6  |                         |       |          | 3.750<br>2.755<br>1.760 | 2.755 | 21.755 ✓ |            | SET MAG NL IN TREE STUMP |

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"SITE-A"

3/3/05

(ELEV. CONT.)

| STA    | BS                      | MEAN  | HI     | FS                      | MEAN  |
|--------|-------------------------|-------|--------|-------------------------|-------|
| SHAKE  | 2.470<br>2.780<br>2.490 | 2.980 | 24.735 |                         |       |
| M1039  |                         |       |        | 2.770<br>2.555<br>2.265 | 2.555 |
| SHAKE  | 2.350<br>1.630<br>0.910 | 1.630 | 24.315 |                         |       |
| TP # 7 |                         |       |        | 2.555<br>2.555<br>2.265 | 2.555 |
| SHAKE  | 3.640<br>2.650<br>1.660 | 2.650 | 24.570 |                         |       |
| TP # 8 |                         |       |        | 5.480<br>7.510<br>5.280 | 7.230 |

| ELEV   | BM<br>ELEV. | DESC.                       |
|--------|-------------|-----------------------------|
|        |             | SET MAG NL IN TREE TRUNK    |
| 22.685 |             | TOP OF PIPE<br>WELL = M1039 |
|        |             | TOP OF PIPE<br>WELL = M1039 |
| 21.760 |             | MAG NL IN TREE TRUNK        |
|        |             | MAG NL IN TREE TRUNK        |
| 19.880 |             | SET 80 D SPIKE              |

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CREW

#03-77478  
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8/3/05

"SITE - A"

(ELEV. CONT)

| STA     | BS                      | MEAN  | HI     | FS                      | MEAN  | ELEV   | BM<br>ELEV | DESC           |
|---------|-------------------------|-------|--------|-------------------------|-------|--------|------------|----------------|
| SHAKE   | 5.510<br>4.070<br>2.630 | 4.070 | 23.750 | ✓                       |       |        |            | SET 80 D SPIKE |
| TP # 9  |                         |       |        | 7.280<br>6.550<br>5.820 | 6.550 | 17.400 | ✓          | SET 80 D SPIKE |
| SHAKE   | 2.340<br>1.650<br>0.960 | 1.650 | 19.050 | ✓                       |       |        |            | SET 80 D SPIKE |
| TP # 10 |                         |       |        | 6.010<br>5.120<br>4.730 | 5.120 | 13.930 | ✓          | SET CUT NL     |
| SHAKE   | 7.130<br>5.710<br>4.290 | 5.710 | 19.640 | ✓                       |       |        |            | SET CUT NL     |
| TP # 11 |                         |       |        | 6.060<br>6.420<br>4.780 | 6.420 | 13.220 | ✓          | SET CUT NL     |

2548/03

SAME  
CREW

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"SITE-A"

8/3/05

(ELEV. CONT)

2548/04

| STA   | BS                      | MEAN  | HI       | FS                        | MEAN   | ELEV     | BM<br>ELEV | DESC       |
|-------|-------------------------|-------|----------|---------------------------|--------|----------|------------|------------|
| SHAKE | 5.950<br>4.495<br>3.040 | 4.495 | 17.715 ✓ |                           |        |          |            | SET CUT NL |
| TP#12 |                         |       |          | 6.000<br>4.780<br>3.560   | 4.780  | 12.935 ✓ |            | SET CUT NL |
| SHAKE | 7.160<br>5.920<br>4.680 | 5.920 | 18.855 ✓ |                           |        |          |            | SET CUT NL |
| TP#13 |                         |       |          | 11.750<br>10.050<br>8.350 | 10.050 | 8.805 ✓  |            | SET CUT NL |
| SHAKE | 6.590<br>5.290<br>3.990 | 5.290 | 14.095 ✓ |                           |        |          |            | SET CUT NL |
| TP#14 |                         |       |          | 7.790<br>5.845<br>3.900   | 5.845  | 8.250 ✓  |            | SET CUT NL |

SAME  
CREW

#03-77478  
S.F.W.M.D

8/3/05

"SITE-A"

(ELEV. CONT)

| STA   | BS    | MEAN  | HI     | #S | MEAN |
|-------|-------|-------|--------|----|------|
|       | 6.870 |       |        |    |      |
| SHAKE | 5.360 | 5.360 | 13.610 | ✓  |      |
|       | 3.850 |       |        |    |      |

|       |  |  |  |       |       |
|-------|--|--|--|-------|-------|
|       |  |  |  | 5.380 |       |
| TP#15 |  |  |  | 3.430 | 3.430 |
|       |  |  |  | 1.480 |       |

|       |       |       |        |   |  |
|-------|-------|-------|--------|---|--|
|       | 4.330 |       |        |   |  |
| SHAKE | 2.820 | 2.820 | 13.000 | ✓ |  |
|       | 1.310 |       |        |   |  |

|       |  |  |  |       |       |
|-------|--|--|--|-------|-------|
|       |  |  |  | 7.460 |       |
| TP#16 |  |  |  | 5.660 | 5.660 |
|       |  |  |  | 3.860 |       |

|       |       |       |        |   |  |
|-------|-------|-------|--------|---|--|
|       | 6.290 |       |        |   |  |
| SHAKE | 4.790 | 4.790 | 12.130 | ✓ |  |
|       | 3.270 |       |        |   |  |

|       |  |  |  |       |       |
|-------|--|--|--|-------|-------|
|       |  |  |  | 5.150 |       |
| TP#17 |  |  |  | 3.305 | 3.305 |
|       |  |  |  | 1.460 |       |

2548/05

| BM   | DESC       |
|------|------------|
| ELEV |            |
|      | SET CUT NL |

|        |   |            |
|--------|---|------------|
| 10.180 | ✓ | SET CUT NL |
|--------|---|------------|

|  |            |
|--|------------|
|  | SET CUT NL |
|--|------------|

|       |   |            |
|-------|---|------------|
| 7.340 | ✓ | SET CUT NL |
|-------|---|------------|

|  |            |
|--|------------|
|  | SET CUT NL |
|--|------------|

|       |   |            |
|-------|---|------------|
| 8.825 | ✓ | SET CUT NL |
|-------|---|------------|

SAME  
CREW

#03-77478  
S.F.M.M.D.

8/3/05

"SITE-A"

(ELEV. CONT.)

| STA     | BS                      | MEAN  | HI     | FS                        | MEAN   | BM<br>ELEV | DESC       |
|---------|-------------------------|-------|--------|---------------------------|--------|------------|------------|
| SHAKE   | 9.620<br>8.100<br>6.600 | 8.700 | 16.925 | ✓                         |        |            | SET CUT NL |
| TP # 18 |                         |       |        | 12.750<br>10.560<br>8.370 | 10.560 | 6.365 ✓    | SET CUT NL |
| SHAKE   | 7.550<br>5.310<br>3.070 | 5.310 | 11.675 | ✓                         |        |            | SET CUT NL |
| TP # 19 |                         |       |        | 7.750<br>5.925<br>3.900   | 5.825  | 5.850 ✓    | SET CUT NL |
| SHAKE   | 7.870<br>6.355<br>4.840 | 6.355 | 12.205 | ✓                         |        |            | SET CUT NL |
| TP # 20 |                         |       |        | 5.870<br>3.870<br>1.850   | 3.870  | 8.335 ✓    | SET CUT NL |



SAME  
CREW

#03-77478  
S.F.W.M.D.

8/3/05

"SITE-A"

(ELEV CONT)

| STA   | BS                      | MEAN  | HI     | FS | MEAN |
|-------|-------------------------|-------|--------|----|------|
| SHAKE | 7.320<br>6.385<br>5.450 | 6.385 | 17.720 |    |      |

|    |  |  |  |                         |       |
|----|--|--|--|-------------------------|-------|
| BM |  |  |  | 6.040<br>5.460<br>4.880 | 5.460 |
|----|--|--|--|-------------------------|-------|

|    |                         |       |        |  |  |
|----|-------------------------|-------|--------|--|--|
| BM | 3.605<br>3.425<br>3.245 | 3.425 | 26.110 |  |  |
|----|-------------------------|-------|--------|--|--|

|               |  |  |  |                         |      |
|---------------|--|--|--|-------------------------|------|
| DISC<br>M1039 |  |  |  | 3.920<br>3.740<br>3.560 | 3.74 |
|---------------|--|--|--|-------------------------|------|

|       |                         |       |        |  |  |
|-------|-------------------------|-------|--------|--|--|
| SHAKE | 3.320<br>3.140<br>2.960 | 3.140 | 25.510 |  |  |
|-------|-------------------------|-------|--------|--|--|

|    |  |  |  |                         |       |
|----|--|--|--|-------------------------|-------|
| BM |  |  |  | 3.865<br>3.755<br>3.645 | 3.755 |
|----|--|--|--|-------------------------|-------|

2548/07

| ELEV | BM<br>ELEV | DESC. |
|------|------------|-------|
|------|------------|-------|

SET CUT NIL

9.260  
9.280  
ERR = 0.020

NGS # A55245  
END DISC STAMPED  
GCY DOZ 2001  
296 W OF W EDGE OF PAV.  
COUNTY LINE RD NEAR HEAD W  
NAVD 88

22.685 WELL = M1039

22.310 ↓

SET S.F.W.M.D. DISC  
STAMPED M1039 2005

21.755 21.755 TP #16 MARY NIL IN STUMP  
NO ERROR

SAME  
CREW

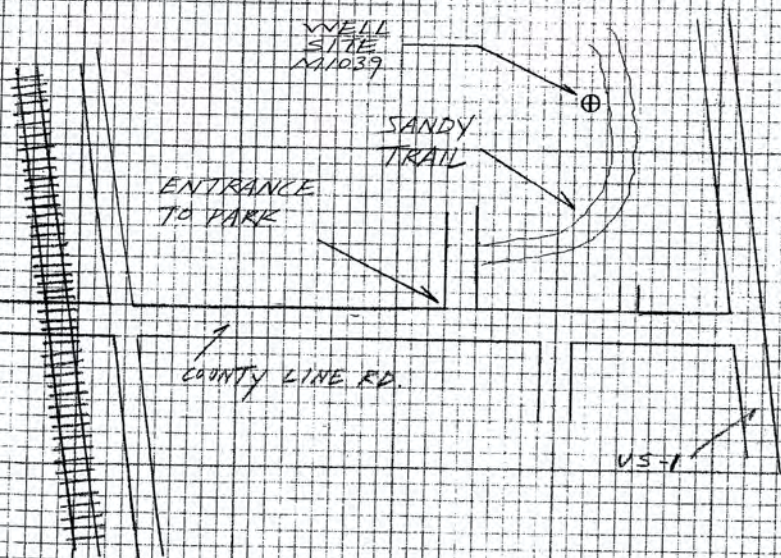
#03-77478  
S.F.W.M.D.

(SITE - A  
DESCRIPTION)

8/3/05

DIRECTIONS -

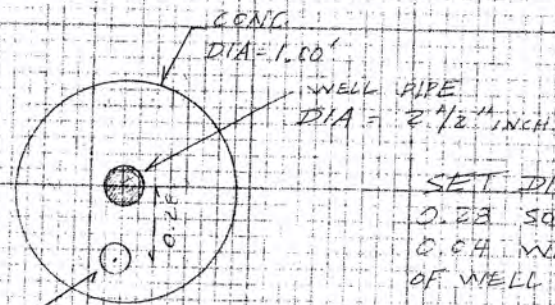
FROM THE INTERSECTION OF  
US-1 AND COUNTY LINE RD.  
TRAVEL WEST ON COUNTY  
LINE RD FOR 0.2 MILES  
TO THE ENTRANCE OF TERVESTA  
PARK TURN NORTH INTO  
PARK AND THEN EAST ONTO A  
SANDY TRAIL THAT CIRCLES  
AROUND FOR 0.2 MILES THE  
WELL IS ON THE LEFT SIDE  
OF THE TRAIL



2548/08

SKETCH OF WELL SITE = M1039

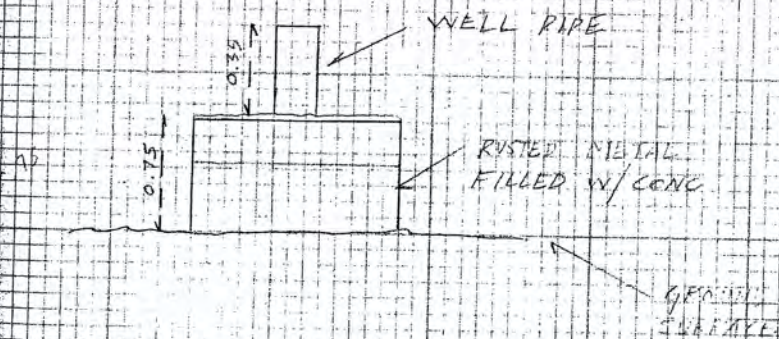
TOP VIEW



SET  
S.F.W.M.D.  
DISC  
STAMPED  
M1039 2005

SET DISC  
0.23 SOUTH  
0.04 WEST  
OF WELL PIPE

SIDE VIEW



SAME  
CREN

#03-77478  
S.F.W.M.D.

8/3/05

"SITE-B"

(ESTABLISH  
ELEV ON WELL  
M1233)

| STA   | BS                      | MEAN HI | FS                      | MEAN  |
|-------|-------------------------|---------|-------------------------|-------|
| BM    | 4.675<br>4.530<br>4.385 | 4.530   | 12.250                  | ✓     |
| M1233 |                         |         | 4.975<br>4.910<br>4.845 | 4.910 |
| SHAKE | 5.385<br>5.325<br>5.265 | 5.325   | 12.665                  | ✓     |
| BM    |                         |         | 5.095<br>4.945<br>4.795 | 4.945 |

2548/09

| ELEV  | BM<br>ELEV | DESC   |
|-------|------------|--|
| 7.720 |            | NGS # AJ 5644 END DISC<br>STAMPED B 516 2001<br>52.50' N. OF PROT. $\frac{1}{4}$ OF SE<br>COUNTY LINE RD AND 4' W. OF<br>PROT. W. EDGE OF EAV. OF SE<br>WOODEN BRIDGE L.M. |
| 7.340 |            | TOP OF PIPE NAVD 88<br>WELL = M1233  |
|       |            | TOP OF PIPE<br>WELL = M1233  |
| 7.720 | 7.720      | NGS # AJ 5644<br>END BRASS D.<br>NAV 88  |

SAME  
CREW

#03-77473  
S.F.W.M.D.

"SITE-B"

8/3/05

(ESTABLISH  
ELEV. ON WELL  
M1230)

| STA   | BS                      | MEAN  | HI     | FS                      | MEAN  |
|-------|-------------------------|-------|--------|-------------------------|-------|
| BM    | 4.790<br>4.640<br>4.490 | 4.640 | 12.360 |                         |       |
| M1230 |                         |       |        | 5.010<br>4.925<br>4.840 | 4.925 |
| SHAKE | 5.300<br>5.215<br>5.130 | 5.215 | 12.650 |                         |       |
| BM    |                         |       |        | 5.080<br>4.930<br>4.780 | 4.930 |

2548/10

| ELEV  | BM<br>ELEV | DESC  |
|-------|------------|---|
| 7.720 |            | NGS # AJ5644<br>FND DISC. STAMPED<br>3516 2001<br>52.50' N. OF PROJ. $\frac{1}{2}$ OF SE COUNTY<br>LINE RD<br>4' W. OF PROJ. W. EDGE OF PAV.<br>SE. WOOLEN BRIDGE LN<br>TOP OF PIPE NAVD 89<br>WELL = M1230 |
| 7.435 |            |   |
| 7.720 | 7.720      | TOP OF PIPE<br>WELL = M1230   |
| 7.720 | 7.720      | NGS # AJ 5644<br>FND BRASS D.<br>NAVD 89  |

SAME  
CREW

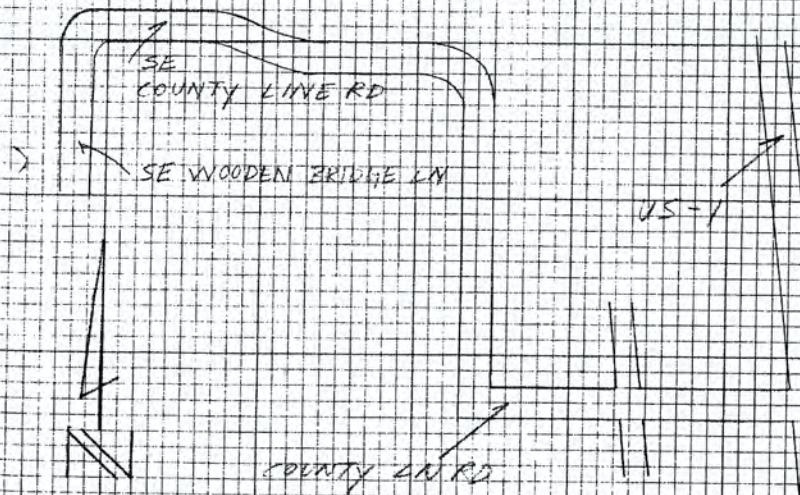
#03-1478  
S.F.W.M.D.

(SITE - B  
DESCRIPTION)

8/3/05

DIRECTIONS - FROM THE INTERSECTION OF US  
AND COUNTY LN RD. TRAVEL WEST  
ON COUNTY LN RD FOR 1.3 MILE  
CONTINUE NORTH FOR 0.9 MILE  
AND CONTINUE WEST AGAIN FOR  
0.7 MILES ON SE COUNTY LN RD WHERE  
IT TURNS SOUTH AND BECOMES  
SE WOODEN BRIDGE LN PARK ON SIDE  
OF RD AND WALK NORTH INTO WOODS  
THE WELLS ARE 96'± NORTH OF  
PROJECTED  $\phi$  OF SE COUNTY LN RD  
AND ARE ON LINE WITH THE WEST  
EDGE OF PAY. OF SE WOOD BRIDGE LN.

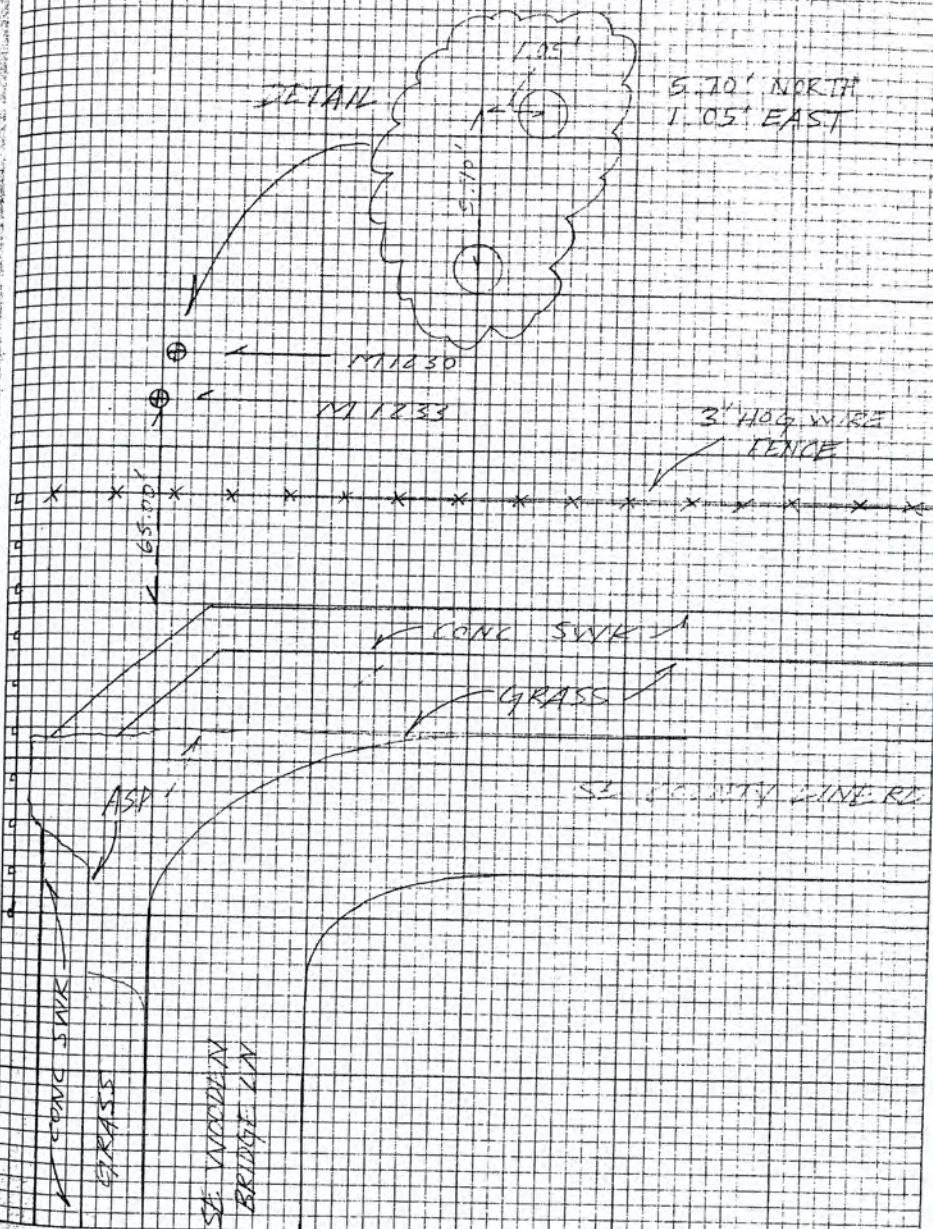
- ⊙ WELL SITE M1230
- ⊙ WELL SITE M1233



2548/11

DETAIL

5.70' NORTH  
1.05' EAST



A. REPERO  
T. LOPEZ  
N. CEPEDA

#03-17478  
S.F.W.M.D  
"SITE - C"

8/4/05

( ESTABLISH  
ELEV. ON WELLS  
M1229, M1232 )

| STA   | BS                      | MEAN  | HI     | FS                      | MEAN  | BM<br>ELEV | BM<br>ELEV | DESC.  |
|-------|-------------------------|-------|--------|-------------------------|-------|------------|------------|--|
| BM    | 5.860<br>5.050<br>4.240 | 5.050 | 14.310 |                         |       |            | 9.260      | NGS # AJ 5647<br>FND DISC STAMPED E. 516.2001<br>AT THE INTERSECTION OF PINE<br>TREE ST AT MARTIN COUNTY<br>& WEST PALM LINE 13 FT<br>NORTH OF WOOD POWER POLE<br>SET CUT NL NAVD 88 |
| TP#1  |                         |       |        | 6.920<br>5.245<br>3.570 | 5.245 |            | 9.065      | SET CUT NL   |
| SHAKE | 6.245<br>4.755<br>3.265 | 4.755 | 13.820 |                         |       |            |            | SET CUT NL   |
| TP#2  |                         |       |        | 5.250<br>3.869<br>2.070 | 3.869 |            | 9.960      | SET CUT NL   |
| SHAKE | 7.000<br>5.270<br>3.540 | 5.270 | 15.230 |                         |       |            |            | SET CUT NL   |
| TP#3  |                         |       |        | 8.720<br>7.010<br>5.300 | 7.010 |            | 8.220      | SET CUT NL   |

2543/12

SAME CREW #03-17418 S.F.W.M.D. "SITE-C"

8/4/05

(ELEV CONT)

| STA   | BS                      | MEAN  | HI       | FS                      | MEAN  | ELEV    | EM ELEV | DESC       |
|-------|-------------------------|-------|----------|-------------------------|-------|---------|---------|------------|
| SHAKE | 7.000<br>5.705<br>4.390 | 5.705 | 13.925 ✓ |                         |       |         |         | SET CUT NL |
| TP#4  |                         |       |          | 6.565<br>5.065<br>3.565 | 5.065 | 8.860 ✓ |         | SET CUT NL |
| SHAKE | 6.900<br>4.930<br>2.960 | 4.930 | 13.730 ✓ |                         |       |         |         | SET CUT NL |
| TP#5  |                         |       |          | 7.100<br>5.395<br>3.690 | 5.395 | 8.395 ✓ |         | SET CUT NL |
| SHAKE | 7.000<br>5.250<br>3.500 | 5.250 | 13.645 ✓ |                         |       |         |         | SET CUT NL |
| TP#6  |                         |       |          | 5.705<br>3.705<br>1.705 | 3.705 | 7.940 ✓ |         | SET CUT NL |

SAME  
CREW

#03-77478  
S.F.W.M.D.

2548/14

8/4/05

"SITE-C"

(ELEV. CONT.)

| STA    | BS                       | MEAN  | HI     | FS                       | MEAN  | ELEV  | BM<br>ELEV | DESC       |
|--------|--------------------------|-------|--------|--------------------------|-------|-------|------------|------------|
| SHAKE  | 6.610<br>4.555<br>2.500  | 4.555 | 14.495 |                          |       |       |            | SET CUT NL |
| TP # 7 |                          |       |        | 7.710<br>5.535<br>3.280  | 5.525 | 8.970 |            | SET CUT NL |
| SHAKE  | 7.280<br>5.175<br>3.070  | 5.175 | 14.145 |                          |       |       |            | SET CUT NL |
| TP # 8 |                          |       |        | 11.880<br>7.550<br>7.120 | 7.550 | 4.595 |            | SET CUT NL |
| SHAKE  | 7.1500<br>5.195<br>3.240 | 5.195 | 9.790  |                          |       |       |            | SET CUT NL |
| TP # 9 |                          |       |        | 3.930<br>2.180<br>0.380  | 2.180 | 7.610 |            | SET CUT NL |



SAME  
CREW#03 - 77478  
S.F.W.M.D

3/4/05

"SITE-C"

(ELEV. CONT)

| STA    | BS                      | MEAN  | HI     | FS                      | MEAN  | ELEV  | BM<br>ELEV | DESC                        |
|--------|-------------------------|-------|--------|-------------------------|-------|-------|------------|-----------------------------|
| SHAKE  | 7.570<br>6.490<br>5.410 | 6.49  | 14.100 |                         |       |       |            | SET CUT NL                  |
| TP#10  |                         |       |        | 6.490<br>5.180<br>3.870 | 5.180 | 8.920 |            | SET CUT NL                  |
| SHAKE  | 5.740<br>4.705<br>3.670 | 4.705 | 13.625 |                         |       |       |            | SET CUT NL                  |
| TP #11 |                         |       |        | 5.900<br>5.000<br>4.100 | 5.000 | 8.625 |            | SET MAG NL & W              |
| SHAKE  | 4.750<br>4.300<br>3.850 | 4.300 | 12.925 |                         |       |       |            | SET MAG NL & W              |
| M 1232 |                         |       |        | 5.190<br>4.740<br>4.290 | 4.740 | 8.185 |            | TOP OF PIPE<br>WELL = M1232 |

SAME  
OPEN

#03-77478  
S.F.W.M.E.

"SITE - C"

2/4/05

(ELEV. CONT)

| STA    | BS                      | MEAN  | HI     | FS                      | MEAN  | ELEV  | BM<br>ELEV | DESC                     |
|--------|-------------------------|-------|--------|-------------------------|-------|-------|------------|--------------------------|
| SHAKE  | 5.380<br>4.930<br>4.490 | 4.930 | 13.115 |                         |       |       |            | TOP OF PIPE<br>WELL 1232 |
| TP #11 |                         |       |        | 5.270<br>4.850<br>4.430 | 4.850 | 8.265 |            | TOP OF PIPE<br>WELL 1229 |
| SHAKE  | 4.890<br>4.450<br>4.020 | 4.450 | 12.715 |                         |       |       |            | TOP OF PIPE<br>WELL 1229 |
| TP #12 |                         |       |        | 4.540<br>4.090<br>3.640 | 4.090 | 8.625 |            | SET MAG NL & W           |
| SHAKE  | 5.970<br>5.090<br>4.210 | 5.090 | 13.715 |                         |       |       |            | SET MAG NL & W           |
| TP #13 |                         |       |        | 5.850<br>4.800<br>3.750 | 4.800 | 8.915 |            | SET CUT NL               |

SAME  
CREW

#03-77478  
S.F.W.M.D.  
SITE - C

8/4/05

(ELEV. CONT.)

| STA    | ZS                       | MEAN  | HL     | FS                      | MEAN  | ELEV  | BM<br>ELEV | DESC       |
|--------|--------------------------|-------|--------|-------------------------|-------|-------|------------|------------|
| SHAKE  | 6.640<br>5.335<br>4.030  | 5.335 | 14.350 |                         |       |       |            | SET CUT NL |
| -TP#14 |                          |       |        | 7.730<br>6.645<br>5.580 | 6.645 | 7.605 |            | SET CUT NL |
| SHAKE  | 4.150<br>2.475<br>0.800  | 2.475 | 10.080 |                         |       |       |            | SET CUT NL |
| -TP#15 |                          |       |        | 7.570<br>5.470<br>3.410 | 5.470 | 4.590 |            | SET CUT NL |
| SHAKE  | 11.450<br>9.175<br>6.940 | 9.175 | 13.785 |                         |       |       |            | SET CUT NL |
| TP#16  |                          |       |        | 7.000<br>4.820<br>2.570 | 4.820 | 8.965 |            | SET CUT NL |

CAME  
CREV

#03-77478  
S.F. V. M. 2  
"SITE-C"

13/18

8/4/05

(ELEV. SCNT)

| STA   | BS                      | MEAN  | HI     | FS                      | MEAN  | ELEV  | BM<br>ELEV | DESC       |
|-------|-------------------------|-------|--------|-------------------------|-------|-------|------------|------------|
| SHAKE | 7.820<br>5.575<br>3.330 | 5.575 | 14.540 |                         |       |       |            | SET CUT NL |
| TP#17 |                         |       |        | 6.655<br>4.605<br>2.555 | 4.605 | 9.935 |            | SET CUT NL |
| SHAKE | 6.010<br>3.790<br>1.570 | 3.790 | 13.725 |                         |       |       |            | SET CUT NL |
| TP#18 |                         |       |        | 6.900<br>5.330<br>3.760 | 5.330 | 8.575 |            | SET CUT NL |
| SHAKE | 7.370<br>5.460<br>3.550 | 5.460 | 13.855 |                         |       |       |            | SET CUT NL |
| TP#19 |                         |       |        | 6.700<br>5.000<br>3.240 | 5.000 | 8.855 |            | SET CUT NL |

SAME  
CREW

#03-71473  
S.F.W.M.L.  
"SITE-C"

7/4/05

(ELEV. CONT)

| STA   | BS                      | MEAN  | HI     | FS                      | MEAN  | ELEV  | BM<br>ELEV. | DESC       |
|-------|-------------------------|-------|--------|-------------------------|-------|-------|-------------|------------|
| SHAKE | 6.820<br>5.320<br>5.820 | 5.360 | 14.175 |                         |       |       |             | SET CUT NL |
| TP#20 |                         |       |        | 7.280<br>5.280<br>4.640 | 5.960 | 8.215 |             | SET CUT NL |
| SHAKE | 7.780<br>6.340<br>4.900 | 6.340 | 14.555 |                         |       |       |             | SET CUT NL |
| TP#21 |                         |       |        | 9.230<br>6.920<br>4.610 | 6.920 | 7.635 |             | SET CUT NL |
| SHAKE | 7.520<br>1.325<br>0.130 | 1.325 | 2.760  |                         |       |       |             | SET CUT NL |
| TP#22 |                         |       |        | 7.290<br>5.495<br>3.700 | 5.495 | 3.465 |             | SET CUT NL |

2542/19

SAME  
CREW

#03-77478  
S.F.W.M.D.  
"SITE - C"

8/4/05

(ELEV. CONT.)

| STA    | BS                        | MEAN  | HI     | FS                       | MEAN  | ELEV  | BM<br>ELEV | DESC       |
|--------|---------------------------|-------|--------|--------------------------|-------|-------|------------|------------|
| SHAKE  | 6.890<br>5.270<br>3.650   | 5.270 | 8.735  | ✓                        |       |       |            | SET CUT NL |
| TP# 23 |                           |       |        | 6.680<br>5.150<br>3.640  | 5.760 | 3.575 | ✓          | SET CUT NL |
| SHAKE  | 15.580<br>13.910<br>12.24 | 13.91 | 17.485 | ✓                        |       |       |            | SET CUT NL |
| TP# 24 |                           |       |        | 10.200<br>7.700<br>5.200 | 7.700 | 9.785 | ✓          | SET CUT NL |
| SHAKE  | 7.620<br>1.680<br>0.740   | 1.680 | 11.465 | ✓                        |       |       |            | SET CUT NL |
| TP# 25 |                           |       |        | 5.840<br>4.490<br>3.140  | 4.490 | 6.975 | ✓          | SET CUT NL |

SAME  
CREW

#03-77478  
S.F.W.M.D

"SITE - C"

8/4/05

(ELEV. CONT)

| STA   | BS                      | MEAN  | HI     | FS                      | MEAN  | ELEV  | BM<br>ELEV | DESC   |
|-------|-------------------------|-------|--------|-------------------------|-------|-------|------------|--|
| SHAKE | 9.050<br>7.300<br>5.710 | 7.280 | 14.355 |                         |       |       |            | SET CUT NL   |
| TP#26 |                         |       |        | 7.380<br>6.190<br>5.000 | 6.190 | 8.165 |            | SET CUT NL   |
| SHAKE | 5.810<br>5.690<br>5.570 | 5.690 | 13.855 |                         |       |       |            | SET CUT NL   |
| BM    |                         |       |        | 7.610<br>7.380<br>7.160 | 7.380 | 6.470 | 6.450      | NGS # AJ 2646<br>END FLANGE - ENCASED STAINLESS<br>STEEL PIPE<br>STAMPING 3 SIG 7001<br>INTERSECTION OF COUNTRY CLUB<br>DRIVE AND ISLAND WAY.<br>13.7 FT N.H. OF THE HYDRANT.<br>MAYD 88 |

ERR = 0.020

SAMIE  
CREW

#03-77473  
S.F.W.M.D.

" SITE C "

3/4/05

| STA | BS | MEAN | FS | MEAN | ELEV | BM<br>ELEV | DESC |
|-----|----|------|----|------|------|------------|------|
|-----|----|------|----|------|------|------------|------|

|    |       |       |        |  |  |       |             |
|----|-------|-------|--------|--|--|-------|-------------|
|    | 5.160 |       |        |  |  |       |             |
| BM | 4.930 | 4.720 | 13.185 |  |  | 8.265 | WELL #M1227 |
|    | 4.680 |       |        |  |  |       |             |

|      |  |  |  |       |       |       |  |
|------|--|--|--|-------|-------|-------|--|
|      |  |  |  | 4.930 |       |       |  |
| DISC |  |  |  | 4.685 | 4.685 | 8.525 |  |
| DISC |  |  |  | 4.440 |       |       |  |

SET S.F. MARKER  
STAMPED 1/12/05

|       |       |       |        |  |  |  |  |
|-------|-------|-------|--------|--|--|--|--|
|       | 4.720 |       |        |  |  |  |  |
| SHAKE | 4.765 | 4.465 | 12.745 |  |  |  |  |
|       | 4.210 |       |        |  |  |  |  |

|    |  |  |  |       |       |       |       |
|----|--|--|--|-------|-------|-------|-------|
|    |  |  |  | 4.725 |       |       |       |
| BM |  |  |  | 4.340 | 4.340 | 8.625 | 6.615 |
|    |  |  |  | 3.935 |       |       |       |

NO ERROR

2542/71



SAME  
CREW

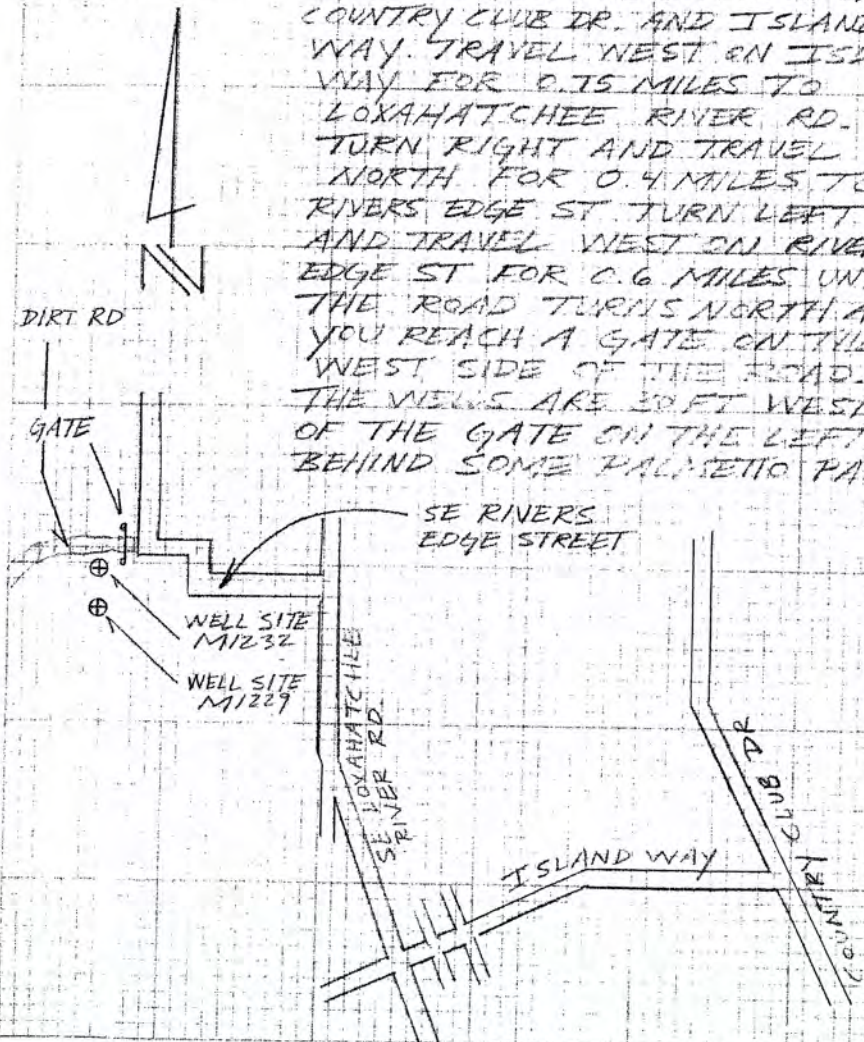
#03-77478  
S.F.W.M.D

8/4/05

(SITE-C  
DESCRIPTION)

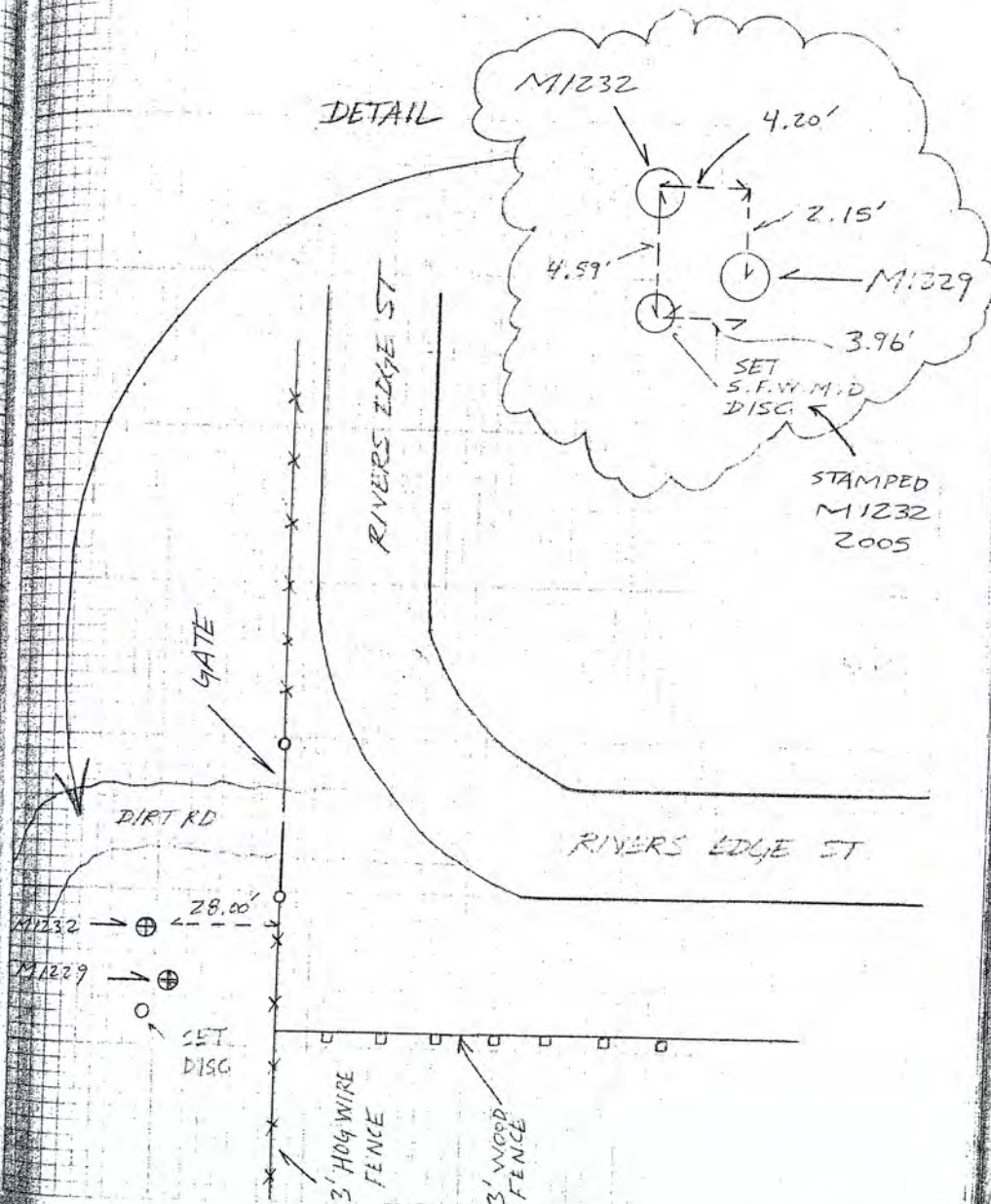
DIRECTIONS -

FROM THE INTERSECTION OF  
COUNTRY CLUB DR. AND ISLAND  
WAY. TRAVEL WEST ON ISLAND  
WAY FOR 0.75 MILES TO  
LOXAHATCHEE RIVER RD.  
TURN RIGHT AND TRAVEL  
NORTH FOR 0.4 MILES TO  
RIVERS EDGE ST. TURN LEFT  
AND TRAVEL WEST ON RIVERS  
EDGE ST FOR 0.6 MILES UNTIL  
THE ROAD TURNS NORTH AND  
YOU REACH A GATE ON THE  
WEST SIDE OF THE ROAD.  
THE WELLS ARE 30 FT WEST  
OF THE GATE ON THE LEFT  
BEHIND SOME PALMETTO PALMS.



2548/23

DETAIL



STAMPED  
M1232  
2005

A. PEDRO  
T. IOPTE  
W. CEBELA

#03-77478  
S. F. W. M. E.

"SITE-D9E"

ESTABLISH  
ELEV. ON WELLS  
M1092; M1044, M. 358

3/2/05

| STA   | BS                      | MEAN  | HI     | FS                      | MEAN  | ELEV   | BM<br>ELEV | DESC  |
|-------|-------------------------|-------|--------|-------------------------|-------|--------|------------|---|
|       | 6.570                   |       |        |                         |       |        |            |   |
| BM    | 5.310                   | 5.310 | 13.330 |                         |       |        | 7.920      | NGS# AF3053<br>FND LISC STAMPED 0224 1965<br>0.7 MILES SOUTHEAST FROM<br>AIA AND SOUTHEAST RIVER RD.<br>20.3' NORTHEAST OF POWER PILE.<br>NAVC 32 |
|       | 4.050                   |       |        |                         |       |        |            |   |
| M1092 |                         |       |        | 5.930<br>7.305<br>6.180 | 7.305 | 5.925  |            | 16" PIPE WELL = M1092   |
|       | 7.351                   |       |        |                         |       |        |            |   |
| SHAKE | 6.730<br>5.610          | 6.730 | 12.055 |                         |       |        |            | TOP OF PIPE WELL = M1092  |
|       |                         |       |        |                         |       |        |            |   |
| TP#1  |                         |       |        | 5.290<br>3.740<br>2.370 | 3.740 | 8.915  |            | SET CUT NL  |
|       |                         |       |        |                         |       |        |            |   |
| SHAKE | 7.740<br>6.150<br>4.560 | 6.150 | 15.065 |                         |       |        |            | SET CUT NL  |
|       |                         |       |        |                         |       |        |            |   |
| TP#2  |                         |       |        | 6.290<br>4.705<br>3.520 | 4.705 | 10.160 |            | SET CUT NL  |

SAME  
CREW

#03-77, 173  
S.F.V.M.D

2548/25

3/8/05

" SITE-DIE "  
(ELEV. CONT)

| STA   | ES                      | MEAN  | HI     | ES                      | MEAN  | ELEV. | BM<br>ELEV | DESC                     |
|-------|-------------------------|-------|--------|-------------------------|-------|-------|------------|--------------------------|
| SHAKE | 5.540<br>4.680<br>3.820 | 4.680 | 14.340 |                         |       |       |            | SET CUT NL               |
| M1044 |                         |       |        | 6.480<br>5.740<br>5.000 | 5.740 | 9.100 |            | TOP OF PIPE WELL - M1044 |
| SHAKE | 5.480<br>4.730          | 5.480 | 14.580 |                         |       |       |            | TOP OF PIPE WELL - M1044 |
| M1058 |                         |       |        | 6.210<br>5.780<br>4.930 | 5.780 | 8.850 |            | TOP OF PIPE WELL - M1058 |
| SHAKE | 7.330<br>6.470<br>5.730 | 6.470 | 14.950 |                         |       |       |            | TOP OF PIPE WELL - M1058 |
| TP#3  |                         |       |        | 7.160<br>5.400<br>3.640 | 5.400 | 9.450 |            | SET CUT NL               |

SAME  
CREV

#00.1002  
S.F.W.M.D

3/9/5

"SITE 29B"

(ELEV. CONT)

| STA   | BS                      | MEAN  | HI     | FS                      | MEAN  | ELEV   | EM<br>ELEV | DESC       |
|-------|-------------------------|-------|--------|-------------------------|-------|--------|------------|------------|
| SHAKE | 6.750<br>5.720<br>5.710 | 5.730 | 14.63  |                         |       |        |            | SET CUT NL |
| TP#4  |                         |       |        | 2.570<br>1.570<br>2.570 | 1.550 | 10.130 |            | SET CUT NL |
| SHAKE | 2.340<br>2.330<br>2.270 | 6.805 | 16.935 |                         |       |        |            | SET CUT NL |
| TP#5  |                         |       |        | 4.260<br>2.495<br>0.730 | 2.475 | 14.440 |            | SET CUT NL |
| SHAKE | 7.510<br>7.470<br>5.720 | 7.470 | 21.910 |                         |       |        |            | SET CUT NL |
| EM    |                         |       |        | 5.220<br>3.910<br>2.600 | 3.910 | 18.000 | 18.000     |            |

NO ERROR

NYS # AF7531  
END FLANGE ENCASED STAINLESS  
STEEL ROD  
STAMPING C403 1971  
147.6' NE OF A1A &  
1.3' SE OF POWER POLE

SAME  
CREW

#03-77478  
S.F.W.M.D.

8/2/05

" SITE - E "

(ELEV. CONT.)

| STA           | BS                      | MEAN  | HI     | FS                      | MEAN  | ELEV   | BM<br>ELEV. | DESC                                      |
|---------------|-------------------------|-------|--------|-------------------------|-------|--------|-------------|---|
| BM            | 6.160<br>5.295<br>4.430 | 5.295 | 14.395 |                         |       |        | 9.100       | WELL = M1044                              |
| DISC<br>M1044 |                         |       |        | 6.010<br>5.135<br>4.260 | 5.135 | 9.260  |             | SET S.F.W.M.D. DISC<br>STAMPED M1044 2005 |
| SHAKE         | 6.300<br>5.430<br>4.560 | 5.430 | 14.690 |                         |       |        |             | " "                                       |
| BM            |                         |       |        | 5.260<br>4.530<br>3.800 | 4.530 | 10.160 | 10.160      | TP # 2 CUT NL<br>No ERROR                 |

SAME  
CPEW

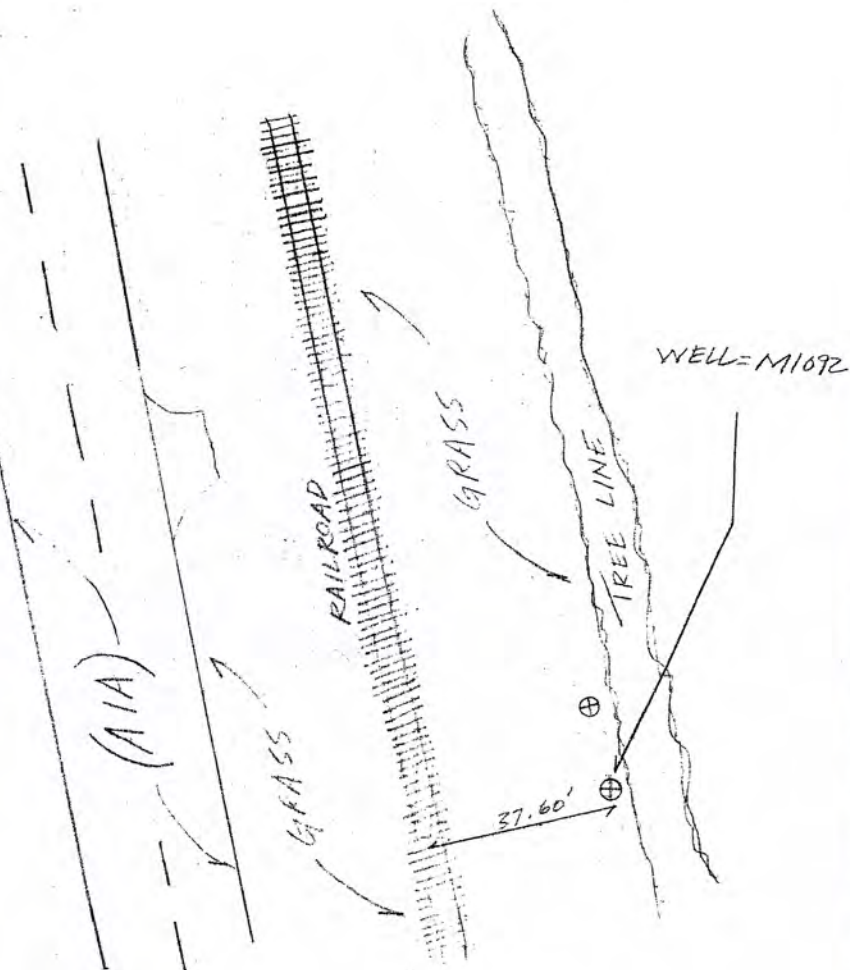
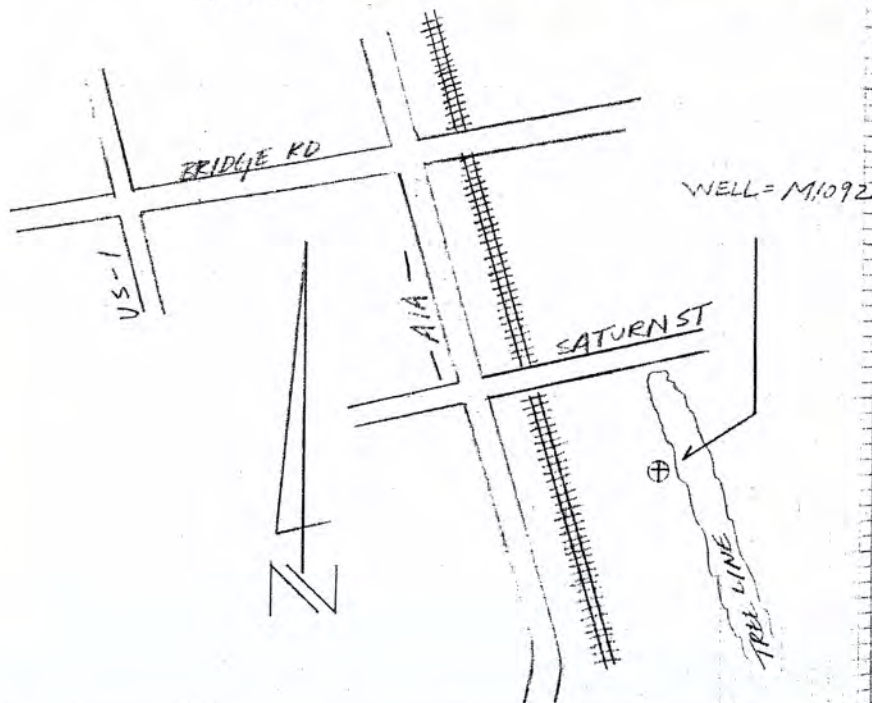
#03-77478  
S.F.W.M.D

2548/28

8/9/05

(SITE-D  
DESCRIPTION)

DIRECTIONS - FROM THE INTERSECTION OF  
BRIDGE RD. AND US-1 TRAVEL  
EAST ON BRIDGE RD. FOR 0.35  
MILES TO AIA. TURN SOUTH ON  
AIA AND TRAVEL FOR 5.7 MILES.  
PARK ON EAST SIDE OF ROAD.  
THE WELL IS 37.60 FT EAST  
OF CENTER OF RAILROAD TRACKS  
AT THE BASE OF TREE LINE  
BORDERING A TWO STORY BROWN  
HOUSE.



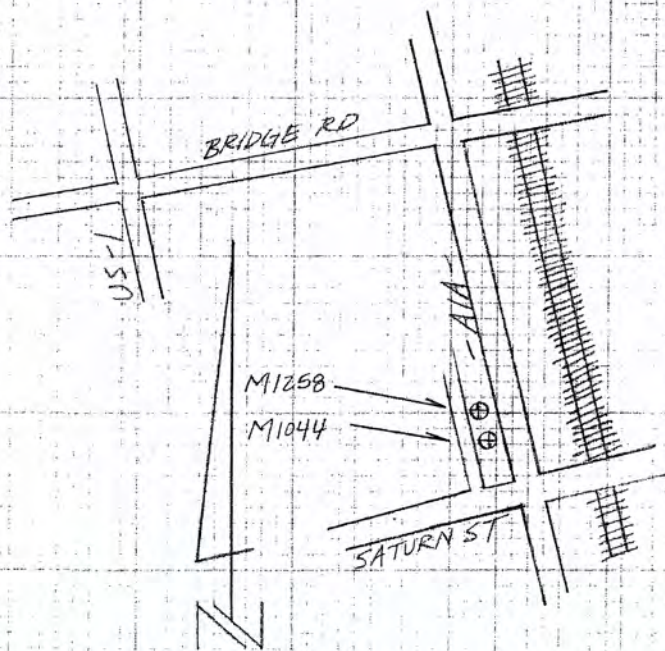
SAME  
CREW

8/8/05

#03-77478  
S.F.W.M.D.

(SITE-E  
DESCRIPTION)

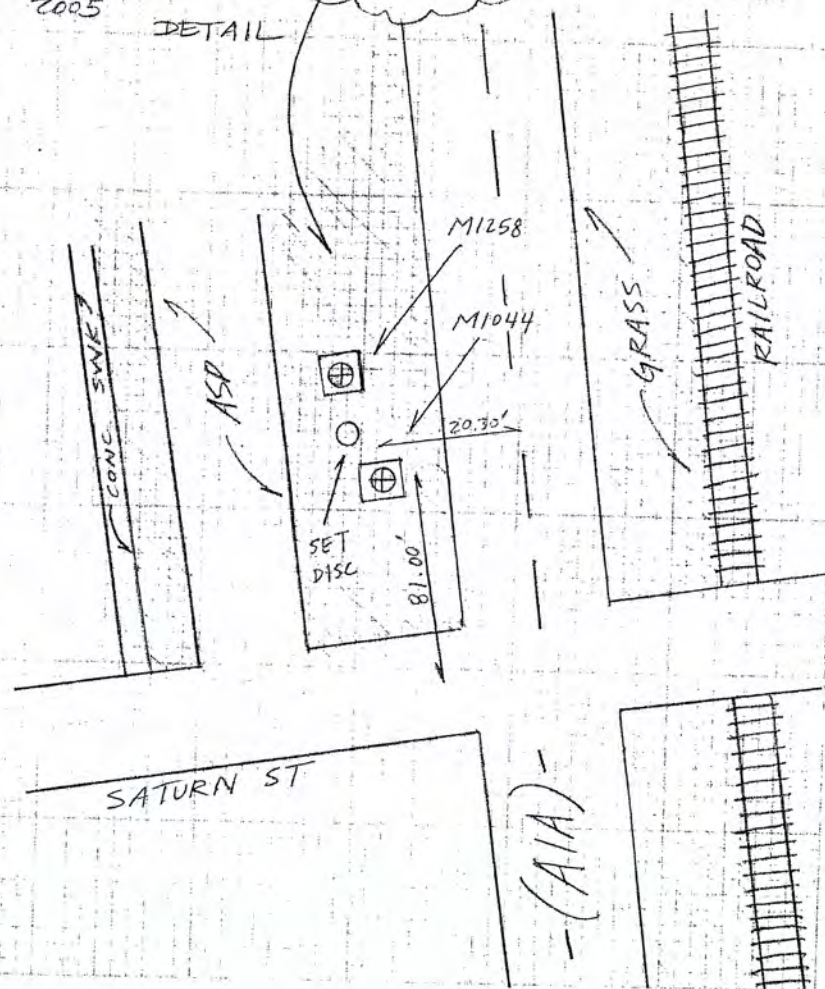
DIRECTIONS - FROM THE INTERSECTION OF  
BRIDGE RD AND US-1 TRAVEL  
EAST ON BRIDGE RD. FOR 0.35  
MILES TO AIA. TURN SOUTH  
AND TRAVEL FOR 0.5 MILES  
TO SATURN ST. WELLS ARE  
JUST NORTH OF SATURN ST.  
ON THE WEST SIDE OF AIA.



2548/29

STAMPED  
M1044  
2005

DETAIL







SAME  
CREW

#03-77475  
S.F.W.M.D.  
"SITE-F"

8/8/05

(ELEV. CONT)

| STA   | BS                      | MEAN  | HI     | FS                      | MEAN  | ELEV   | BM<br>ELEV | DESC  |
|-------|-------------------------|-------|--------|-------------------------|-------|--------|------------|---|
| SHAKE | 7.000<br>7.570<br>6.180 | 7.570 | 21.995 |                         |       |        |            | TOP OF PIPE WELL = M1057  |
| TP#3  |                         |       |        | 2.740<br>1.745<br>0.550 | 1.745 | 20.250 |            | SET CUT NL  |
| SHAKE | 6.790<br>6.420<br>6.050 | 6.420 | 26.670 |                         |       |        |            | SET CUT NL  |
| BM    |                         |       |        | 6.250<br>5.600<br>4.950 | 5.600 | 21.070 | 21.040     | NGS # 6781<br>FND DISC STAMPED PINE 1929 NO3<br>1980. 33.3' NW OF $\phi$ OF SE<br>GROSSRIP ST. 89.6' SW OF<br>A1A $\phi$ . 0.7' SE OF WITNESS POST.<br>MAY 03 |

ERR = 0.030

SAME  
CREW

#03-77478  
S.F.W.M.D.  
"SITE - F"

8/8/05

(ELEV. CONT)

| STA           | BS                      | MEAN  | HI       | FS                      | MEAN  | ELEV             | BM<br>ELEV | DESC  |
|---------------|-------------------------|-------|----------|-------------------------|-------|------------------|------------|---|
| BM            | 4.406<br>4.080<br>3.760 | 4.030 | 18.485 ✓ |                         |       |                  | 14.405     | WELL = M1057                                |
| DISC<br>M1057 |                         |       |          | 4.390<br>4.160<br>3.930 | 4.160 | 14.325 ✓         |            | SET S.F.W.M.D. DISC<br>STAMPED = M1057 2005 |
| SHAKE         | 4.470<br>4.230<br>3.990 | 4.230 | 18.555 ✓ |                         |       |                  |            | " "   |
| BM            |                         |       |          | 6.670<br>6.270<br>5.870 | 6.270 | 12.285<br>12.285 |            | TP#2 MAG N.E.W.<br>NO ERROR                 |

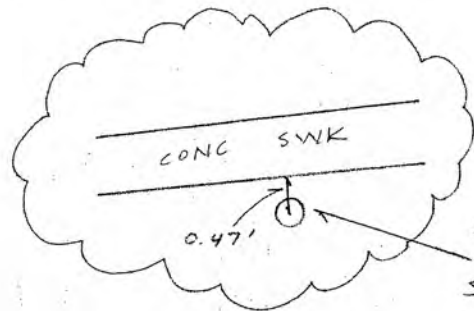
SAME  
CREW

#03-77478  
S.F.W.M.D.

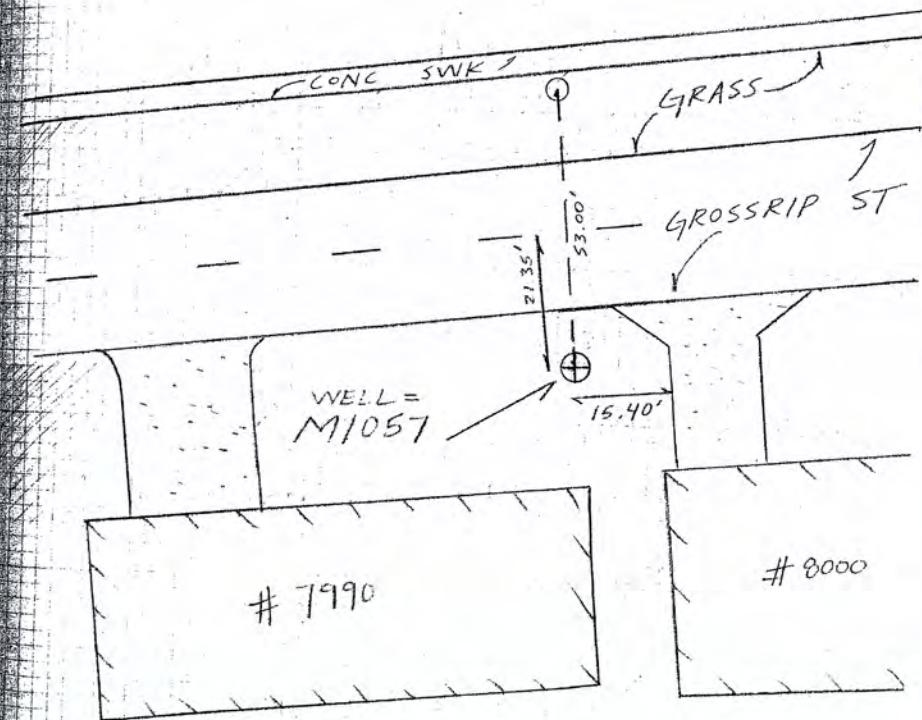
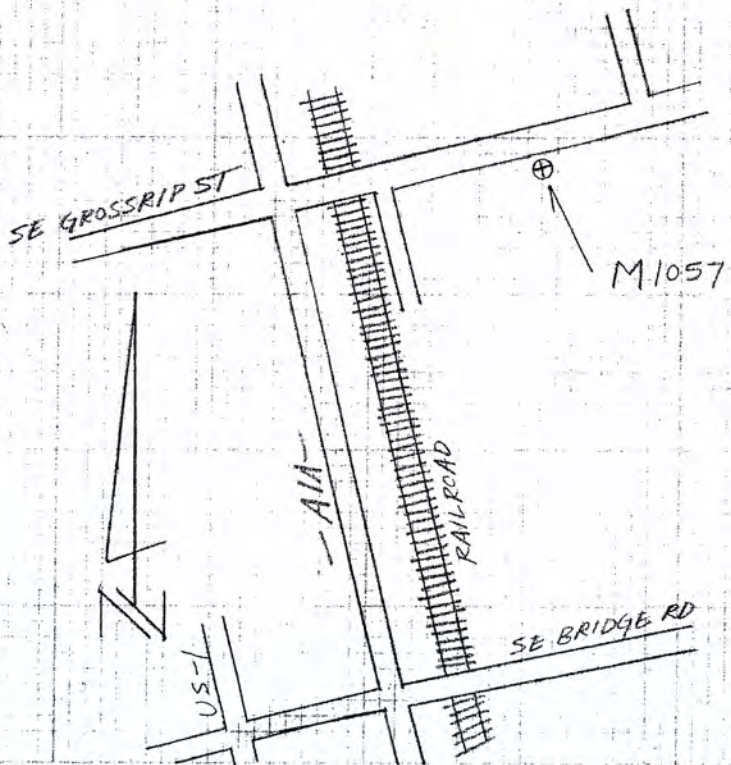
3/8/05

(SITE - F  
DESCRIPTION)

DIRECTIONS - FROM THE INTERSECTION OF US-1 AND  
BRIDGE RD. TRAVEL EAST FOR 0.35M  
TO AIA. TURN LEFT AND TRAVEL  
NORTH ON AIA FOR 2.5 MILES  
TO GROSSRIP ST. AT GROSSRIP  
STREET TURN RIGHT AND  
TRAVEL EAST FOR 0.15 MILES  
THE WELL IS ON SOUTH SIDE  
OF ROAD IN FRONT OF HOUSE  
# 7990.



SET S.F.W.M.D  
DISC  
STAMPED  
M1057 2005



A. REIDERS  
T. LOPEZ  
C. CHESTER

#03-77478  
S.F.W.M.I.  
"SITE - 6"

8/15/05

(ESTABLISH  
ELEV ON WELL=  
141269)



| STA   | BS                      | MEAN  | HI     | FS                      | MEAN  | ELEV   | BM     | ELEV | DESC  |
|-------|-------------------------|-------|--------|-------------------------|-------|--------|--------|------|---|
|       | 4.160                   |       |        |                         |       |        |        |      |   |
| BM    | 3.320<br>2.480          | 3.320 | 20.950 |                         |       |        | 17.630 |      | NGS# 135612<br>FIND DISC SURVEYED 1957 2001<br>250' S. OF TWIN RIVERS MOBILE<br>HOME PARK ENTRANCE<br>3.9' NORTHWEST OF HOWLER<br>SOLE. NAV. 83 |
| TP #1 |                         |       |        | 5.920<br>4.635<br>3.390 | 4.635 | 16.315 |        |      | SET CUT NL  |
| SHAKE | 7.320<br>5.845<br>4.370 | 5.845 | 22.160 |                         |       |        |        |      | SET CUT NL  |
| TP #2 |                         |       |        | 6.010<br>4.600<br>3.190 | 4.600 | 17.560 |        |      | SET CUT NL  |
| SHAKE | 7.470<br>5.730<br>3.990 | 5.730 | 23.290 |                         |       |        |        |      | SET CUT NL  |
| TP #3 |                         |       |        | 5.415<br>4.125<br>2.835 | 4.125 | 19.165 |        |      | SET CUT NL  |

SAME  
CRIV.

#03-77478  
S.F.W.M.D.  
"SITE - G"

8/15/05

(ELEV. CONT)

| STA    | BS                      | MEAN  | HI     | FS                      | MEAN  | ELEV   | BM<br>ELEV | DESC                     |
|--------|-------------------------|-------|--------|-------------------------|-------|--------|------------|--------------------------|
| SHAKE  | 6.045<br>5.745<br>5.445 | 5.745 | 24.910 |                         |       |        |            | SET CUT NL               |
| M1269  |                         |       |        | 7.370<br>6.915<br>6.460 | 6.915 | 17.995 |            | TOP OF PIPE WELL = M1269 |
| SHAKE  | 7.630<br>6.440<br>5.250 | 6.440 | 24.435 |                         |       |        |            | " "                      |
| TP # 4 |                         |       |        | 6.420<br>4.800<br>3.130 | 4.800 | 19.635 |            | SET CUT NL               |
| SHAKE  | 6.660<br>4.890<br>3.120 | 4.890 | 24.525 |                         |       |        |            | SET CUT NL               |
| TP # 5 |                         |       |        | 6.900<br>5.610<br>4.320 | 5.610 | 18.915 |            | SET CUT NL               |

SAME  
CREW

#03-77478  
S.F.W.M.D.  
"SITE-G"

8/15/05

(ELEV. CONT)

| STA   | BS                      | MEAN  | HI     | FS                      | MEAN  | ELEV   | BM<br>ELEV | DESC       |
|-------|-------------------------|-------|--------|-------------------------|-------|--------|------------|------------|
| SHAKE | 5.760<br>4.180<br>2.600 | 4.180 | 23.095 | ✓                       |       |        |            | SET CUT NL |
| TP#6  |                         |       |        | 6.800<br>5.290<br>3.780 | 5.290 | 17.805 | ✓          | SET CUT NL |
| SHAKE | 6.390<br>4.630<br>2.870 | 4.630 | 22.435 | ✓                       |       |        |            | SET CUT NL |
| TP#7  |                         |       |        | 6.800<br>5.060<br>3.320 | 5.060 | 17.375 | ✓          | SET CUT NL |
| SHAKE | 6.480<br>4.975<br>3.470 | 4.975 | 22.350 | ✓                       |       |        |            | SET CUT NL |
| TP#8  |                         |       |        | 6.370<br>4.975<br>3.620 | 4.975 | 17.355 | ✓          | SET CUT NL |

540/36

SAME  
CREW

#03-77478  
S.F.W.M.D.

2548/37

8/15/05

"SITE - G"

(ELEV. CONT)

| STA   | BS                      | MEAN  | HI       | FS | MEAN ELEV | BM ELEV | DESC       |
|-------|-------------------------|-------|----------|----|-----------|---------|------------|
| SHAKE | 9.380<br>8.125<br>6.870 | 8.125 | 25.480 ✓ |    |           |         | SET CUT NL |

|       |  |  |  |                         |       |          |            |
|-------|--|--|--|-------------------------|-------|----------|------------|
| TP# 9 |  |  |  | 2.450<br>1.560<br>0.670 | 1.560 | 23.920 ✓ | SET CUT NL |
|-------|--|--|--|-------------------------|-------|----------|------------|

|       |                         |       |          |  |  |  |            |
|-------|-------------------------|-------|----------|--|--|--|------------|
| SHAKE | 4.780<br>4.520<br>4.260 | 4.520 | 28.440 ✓ |  |  |  | SET CUT NL |
|-------|-------------------------|-------|----------|--|--|--|------------|

|    |  |  |  |                         |       |                  |   |
|----|--|--|--|-------------------------|-------|------------------|---|
| BM |  |  |  | 6.170<br>5.925<br>5.680 | 5.925 | 22.515<br>22.480 | NGS# AJ 5619<br>FND DISC STAMPED LS17 200/<br>180' NORTHWEST FROM $\phi$ OF<br>OSPREY ST. 11.2' NORTHEAST OF<br>BARBED WIRE FENCE.<br>NAVD 88 |
|----|--|--|--|-------------------------|-------|------------------|---|

ERR = 0.035 ✓

SAME  
CREW

#03-77473  
S.F.W.M.D.  
"SITE-4"

9/15/05

(ELEV. CONT)

| STA | BS    | MEAN  | HI       | FS | MEAN | ELEV | EM<br>ELEV | DESC         |
|-----|-------|-------|----------|----|------|------|------------|--------------|
|     | 6.995 |       |          |    |      |      |            |              |
| IM  | 6.310 | 6.310 | 24.605 ✓ |    |      |      | 17.995     | WELL = M1269 |
|     | 6.785 |       |          |    |      |      |            |              |

DISC  
M1269

6.800  
6.270  
5.720

6.270

18.315 ✓

SET S.F.W.M.D. DISC  
STAMPED M1269

|       |       |       |          |  |  |  |  |  |
|-------|-------|-------|----------|--|--|--|--|--|
|       | 6.800 |       |          |  |  |  |  |  |
| SHAKE | 6.460 | 6.460 | 24.775 ✓ |  |  |  |  |  |
|       | 6.120 |       |          |  |  |  |  |  |

IM

6.070  
5.610  
5.150

5.610

19.165

19.145

19.125

19.105

19.085

19.065

19.045

NO ERROR



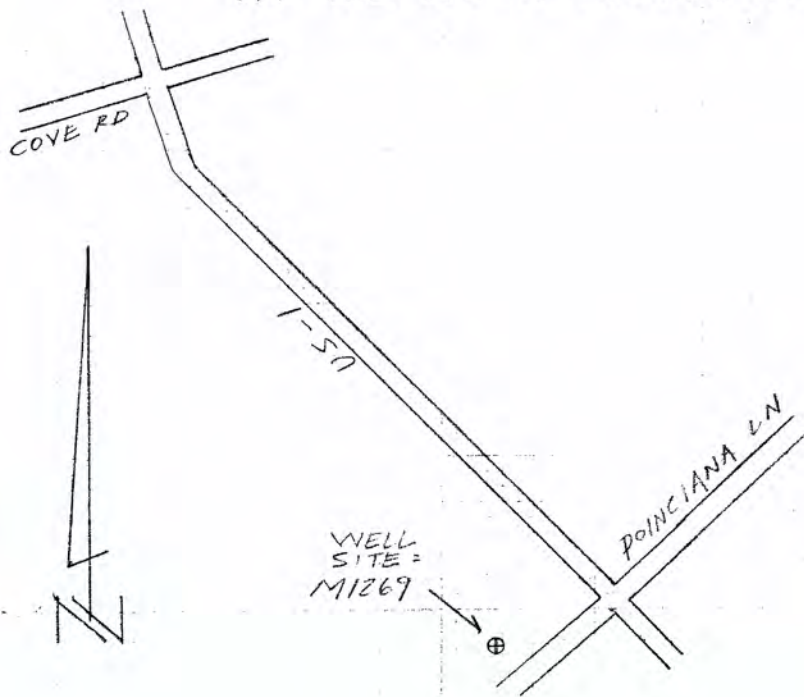
SAME  
CREW

#03-77478  
S.F.W.M.D.

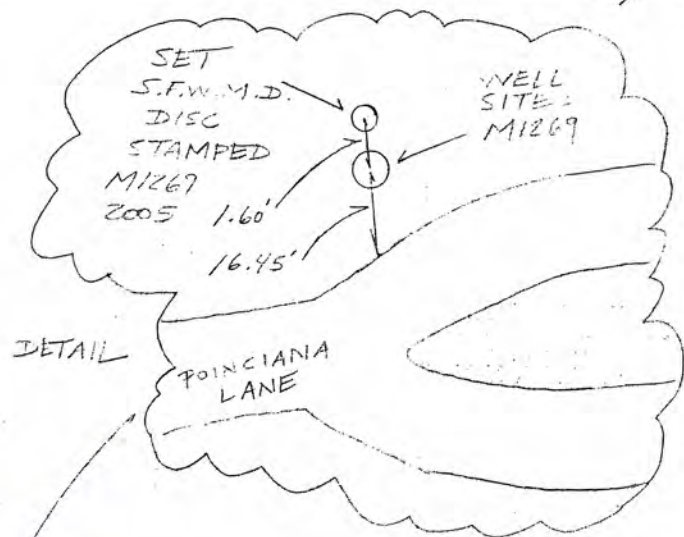
(SITE-G  
DESCRIPTION)

8/15/05

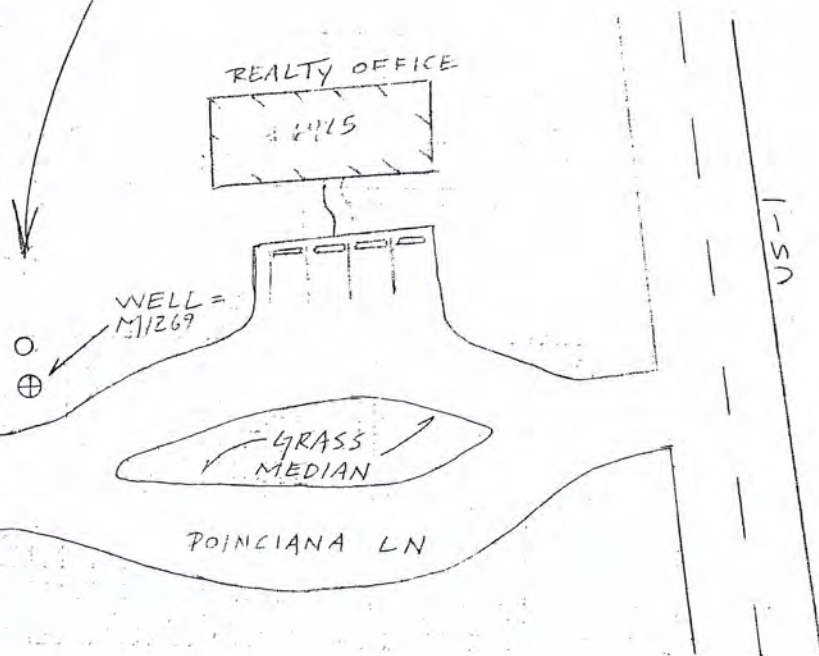
DIRECTIONS - FROM THE INTERSECTION OF  
US-1 AND COVE RD. TRAVEL  
SOUTH ON US-1 FOR 3.1 MILES  
TO POINCIANA LANE. TURN  
RIGHT AND TRAVEL WEST.  
THE WELL IS ON NORTH SIDE  
OF POINCIANA LANE RIGHT  
AFTER YOU PASS REALTY OFFICE  
AT THE END OF MEDIAN STRIP.



2548/39



DETAIL



A. REJERO  
T. LOPEZ  
A. SANTIANA

#03-7747A  
S. F. W. M. D.  
"SITE - H"

5/18/05

ESTABLISHED  
ELEV ON WELLS  
19123E, 19127D

| STA   | BS                      | MEAN  | HI             | FS                         | MEAN   | ELEV   | 3M<br>ELEV | DESC  |
|-------|-------------------------|-------|----------------|----------------------------|--------|--------|------------|---|
| BM    | 4.860<br>4.320<br>3.780 | 4.320 | 45.75<br>4.575 |                            |        |        | ✓ 41.430   | NGS # AC5315 T277 BRASS<br>STAMPED I 95 BY A 31 BT MMS.<br>IN PLACE AT N. EDGE OF BRIDGE<br>IN CONC. GUTTER 9.5' NORTH OF<br>THE NW CORNER OF BRIDGE DECK.<br>NAVD 88 |
| TP#1  |                         |       |                | 16.540<br>16.185<br>15.930 | 15.215 | 29.715 | ✓          | SET 3" 2" WIRE  |
| SHAPE | 3.010<br>2.850<br>2.690 | 2.850 | 32.565         | ✓                          |        |        |            | SET 3" 2" WIRE  |
| TP#2  |                         |       |                | 14.630<br>14.310<br>13.990 | 14.310 | 18.255 | ✓          | SET CUT NL  |
| SHAPE | 7.360<br>5.770<br>4.550 | 5.770 | 24.225         | ✓                          |        |        |            | SET CUT NL  |
| TP#3  |                         |       |                | 7.590<br>5.730<br>3.870    | 5.730  | 18.495 | ✓          | SET CUT NL  |

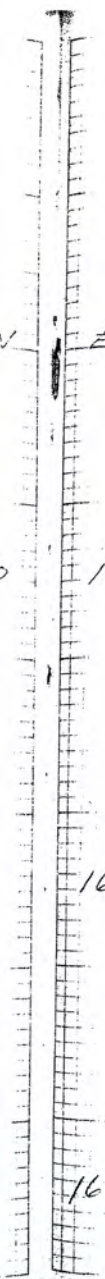
SAME  
CFLV

#03-71175  
S.F.W. M.D.  
"SITE - 11"

8/18/05

(ELEV CUT)

| STA           | BS                      | MEAN  | HI     | FS                      | MEAN  | ELEV   | BM<br>ELEV | DESC   |
|---------------|-------------------------|-------|--------|-------------------------|-------|--------|------------|--|
| SHAKE         | 7.070<br>5.475<br>3.930 | 5.475 | 23.970 |                         |       |        |            | SET CUT NL                                     |
| TP#4          |                         |       |        | 7.360<br>5.750<br>4.140 | 5.750 | 18.220 |            | SET CUT NL                                     |
| SHAKE         | 7.300<br>6.410<br>5.520 | 6.410 | 24.630 |                         |       |        |            | SET CUT NL                                     |
| DISC<br>M1235 |                         |       |        | 8.940<br>8.490<br>8.040 | 8.490 | 16.140 |            | SET S.F.W. M.D. BRASS D.<br>STAMPED M1235 2005 |
| SHAKE         | 4.680<br>4.220<br>3.760 | 4.220 | 20.36  |                         |       |        |            |  |
| M1235         |                         |       |        | 3.770<br>3.975<br>3.370 | 3.975 | 16.785 |            | WELL = M1235                                   |



SAME  
CREST

# 3-11-16  
11.1.2.2  
11.1.2.2

3/13/05

(ELEV. CONT)

| STA   | BS                      | MEAN  | HI     | FS                      | MEAN  | ELEV   | BM<br>ELEV | SET          |
|-------|-------------------------|-------|--------|-------------------------|-------|--------|------------|--------------|
| SHAKE | 3.91<br>3.91            | 3.91  | 20.695 |                         |       |        |            | WELL = M1235 |
| M1270 |                         |       |        | 5.23<br>5.23            | 5.23  | 15.165 |            | WELL = M1270 |
| SHAKE | 5.240<br>5.240<br>5.060 | 5.240 | 20.405 |                         |       |        |            | WELL = M1270 |
| TP4 S |                         |       |        | 3.550<br>3.530<br>3.510 | 3.530 | 17.375 |            | SET CUT NL   |
| SHAKE | 7.910<br>7.390<br>6.870 | 7.390 | 24.765 |                         |       |        |            | SET CUT NL   |
| TP4 G |                         |       |        | 7.330<br>6.500<br>5.730 | 6.500 | 18.215 |            | SET CUT NL   |

SAME  
CREW

#03-77478  
S.F.W.M.E.  
"SITE-H"

8/15/05

(ELEV. CONT.)

| STA   | BS                         | MEAN   | HI     | FS                      | MEAN  | ELEV   | BM<br>ELEV | DESC           |
|-------|----------------------------|--------|--------|-------------------------|-------|--------|------------|----------------|
| SHAKE | 7.260<br>5.790<br>4.320    | 5.790  | 24.005 |                         |       |        |            | SET CUT NL     |
| TP#7  |                            |        |        | 7.250<br>5.510<br>3.770 | 5.510 | 18.495 |            | SET CUT NL     |
| SHAKE | 6.920<br>5.480<br>4.040    | 5.480  | 23.975 |                         |       |        |            | SET CUT NL     |
| TP#8  |                            |        |        | 7.510<br>5.710<br>3.910 | 5.710 | 18.265 |            | SET CUT NL     |
| SHAKE | 13.030<br>12.745<br>12.460 | 12.745 | 31.010 |                         |       |        |            | SET CUT NL     |
| TP#9  |                            |        |        | 1.440<br>1.290<br>1.140 | 1.290 | 29.720 |            | SET 60 D SPIKE |



SAME  
CREW

#03-77478  
S.F.W.M.D.  
"SITE-H"

3/18/05

(ELEV. CONT.)

| STA | BS | MEAN | HI | FS | MEAN | ELEV | BM<br>ELEV | DESC |
|-----|----|------|----|----|------|------|------------|------|
|-----|----|------|----|----|------|------|------------|------|

|       |        |        |        |  |  |  |  |  |
|-------|--------|--------|--------|--|--|--|--|--|
|       | 18.210 |        |        |  |  |  |  |  |
| SHAKE | 17.750 | 17.750 | 47.470 |  |  |  |  |  |
|       | 17.290 |        |        |  |  |  |  |  |

SET 80 D SPIKE

BM

5.705  
5.445  
5.185

5.445

42.025 42.000

ERR = 0.025

NGS # ACS343 FOOT BRASS I.D.  
STAMPED I 95 89 A 24  
IN MEDIAN AT NORTH END OF  
BRIDGE. 4.6' N. OF THE N.  
CONC. GUARDRAIL BETWEEN  
N. AND S. LANES.  
NAVD 88.

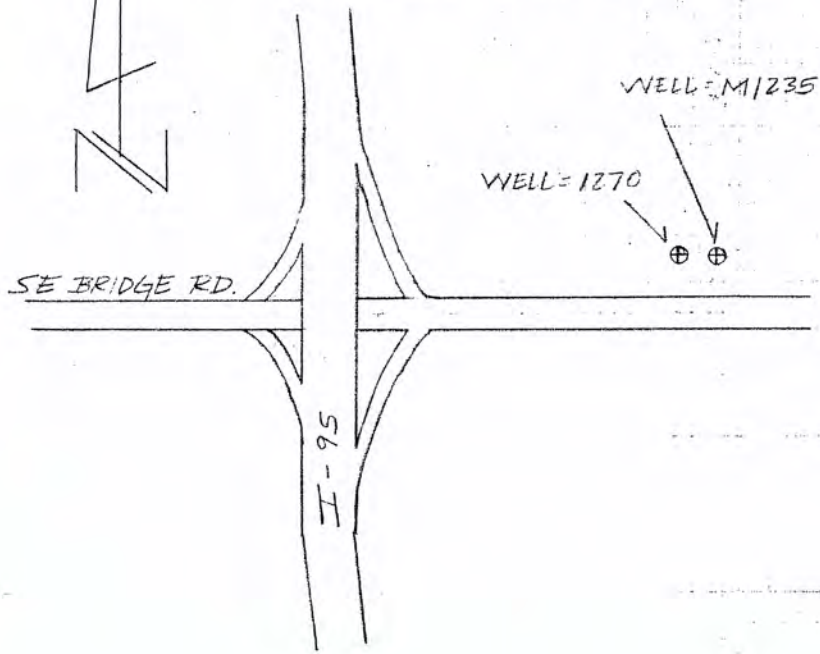
SAME  
CREW

#03-77478  
S.F.W.M.D

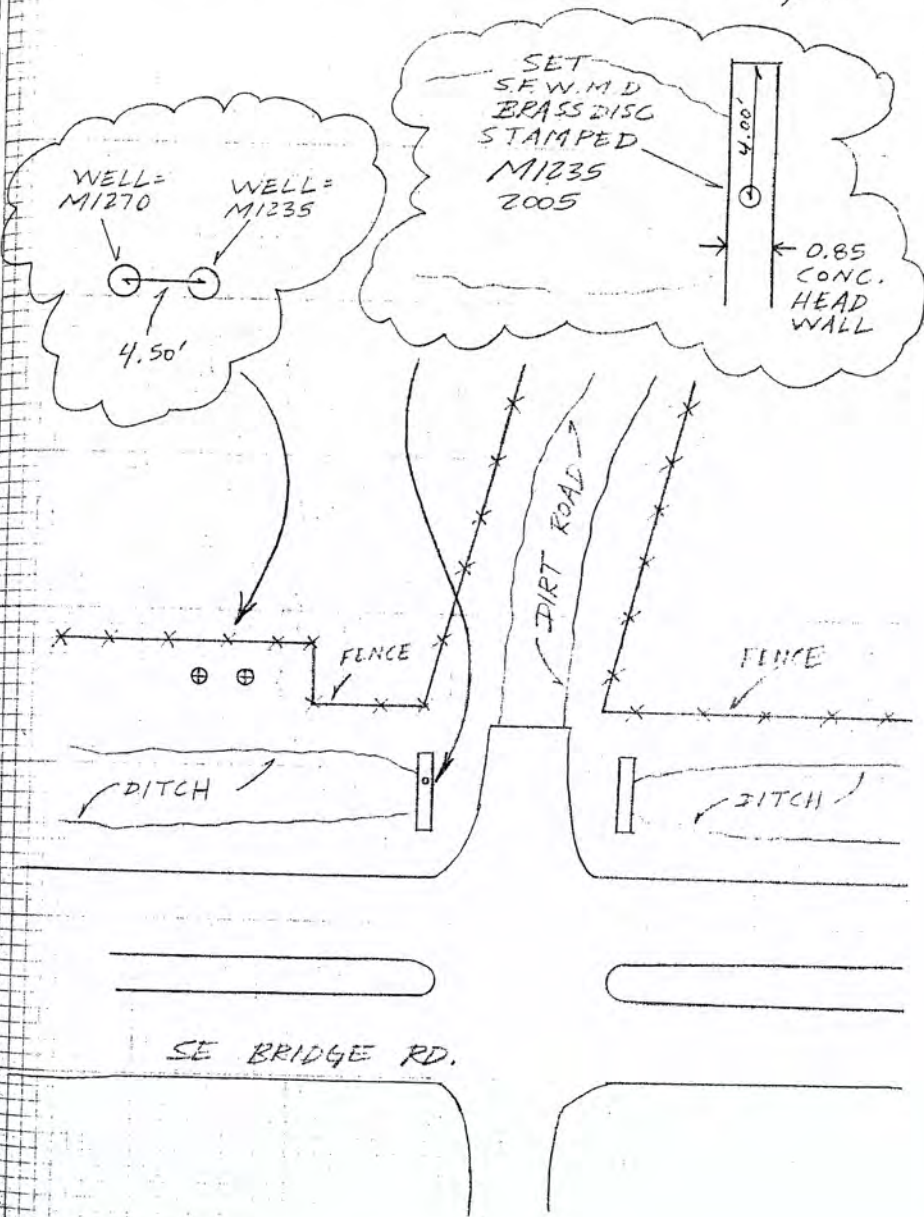
8/18/05

(SITE - H  
DESCRIPTION)

DIRECTIONS - FROM THE INTERSECTION OF  
I-95 AND BRIDGE RD. TRAVEL  
EAST ON BRIDGE RD. FOR 0.3  
MILES. TURN NORTH ON  
DIRT RD AND PARK IN BETWEEN  
DITCH AND FENCE LINE.  
THE WELL IS ON THE NORTH  
SIDE OF THE ACCESS RD. AND  
67' WEST OF DIRT RD.



2548 / 45



A. REBERS  
T. LOPEZ  
A. LOPEZ

#03-111478  
S.F.W.M.S.

"SITE - I"

3/19/05

(ESTABLISH  
ELEV ON WELL =  
M1081)

| STA   | BS    | MEAN  | HI     | FS    | MEAN  | ELEV   | BM<br>ELEV | DESC   |
|-------|-------|-------|--------|-------|-------|--------|------------|--|
|       | 8.620 |       |        |       |       |        |            |  |
| BM    | 7.140 | 7.140 | 32.270 |       |       |        | 25.130     | NGS# AJ8248 FND DISC<br>STAMPED NS22 2001 CERP<br>48.6 N. OF E OF KANNER RD<br>37.0 S. OF POWER POLE W/ GUY<br>WIRE ON W. SIDE OF GATE.<br>NAV83 |
|       | 5.760 |       |        |       |       |        |            |  |
|       |       |       |        | 6.590 |       |        |            |  |
| TP# 1 |       |       |        | 5.035 | 5.035 | 27.235 |            | SET CUT NL   |
|       |       |       |        | 3.480 |       |        |            |  |
|       | 6.150 |       |        |       |       |        |            |  |
| SHAKE | 5.255 | 5.255 | 32.490 |       |       |        |            | SET CUT NL   |
|       | 4.360 |       |        |       |       |        |            |  |
|       |       |       |        | 5.075 |       |        |            |  |
| M1081 |       |       |        | 4.665 | 4.665 | 27.825 |            | WELL M1081   |
|       |       |       |        | 4.195 |       |        |            |  |
|       | 4.630 |       |        |       |       |        |            |  |
| SHAKE | 4.250 | 4.250 | 32.075 |       |       |        |            | SET CUT NL   |
|       | 3.350 |       |        |       |       |        |            |  |
|       |       |       |        | 5.730 |       |        |            |  |
| TP# 2 |       |       |        | 4.840 | 4.840 | 27.235 |            | SET CUT NL   |
|       |       |       |        | 3.750 |       |        |            |  |



SAME  
CREW#03-77478  
S.F.W.M.D

8/19/05

"SITE - II"

(ELEV. CONT)

| STA   | BS                      | MEAN  | HL     | FS                      | MEAN  | ELEV   | BM<br>ELEV | DESC       |
|-------|-------------------------|-------|--------|-------------------------|-------|--------|------------|------------|
| SHAKE | 7.000<br>5.250<br>3.500 | 5.250 | 32.485 |                         |       |        |            | SET CUT NL |
| TP# 3 |                         |       |        | 7.060<br>5.275<br>3.530 | 5.295 | 27.190 |            | SET CUT NL |
| SHAKE | 7.570<br>5.300<br>3.230 | 5.300 | 32.490 |                         |       |        |            | SET CUT NL |
| TP# 4 |                         |       |        | 7.760<br>5.560<br>3.360 | 5.560 | 26.930 |            | SET CUT NL |
| SHAKE | 8.200<br>6.095<br>3.990 | 6.095 | 33.025 |                         |       |        |            | SET CUT NL |
| TP# 5 |                         |       |        | 7.030<br>4.825<br>2.620 | 4.825 | 28.200 |            | SET CUT NL |

SAME  
CREW

#03-77478  
S. F. V. M. D

" SITE - I "

8/19/05

(ELEV. CONT)

| STA   | BS                      | MEAN  | HI       | FS                      | MEAN  | ELEV     | BM<br>ELEV | DESC       |
|-------|-------------------------|-------|----------|-------------------------|-------|----------|------------|------------|
| SHAKE | 6.520<br>4.190<br>1.860 | 4.190 | 32.390 ✓ |                         |       |          |            | SET CUT NL |
| TP# 6 |                         |       |          | 7.450<br>5.210<br>2.970 | 5.210 | 27.180 ✓ |            | SET CUT NL |
| SHAKE | 7.460<br>4.720<br>1.980 | 4.720 | 31.900 ✓ |                         |       |          |            | SET CUT NL |
| TP# 7 |                         |       |          | 7.000<br>4.945<br>2.890 | 4.945 | 26.955 ✓ |            | SET CUT NL |
| SHAKE | 7.170<br>5.330<br>3.490 | 5.330 | 32.785 ✓ |                         |       |          |            | SET CUT NL |
| TP# 8 |                         |       |          | 7.640<br>5.370<br>3.100 | 5.370 | 26.915 ✓ |            | SET CUT NL |

SAME  
CREW

#03-77478  
S.F.W.M.D.

2543/49

8/19/05

"SITE-I"

(ELEV. CONT)

| STA   | BS                      | MEAN  | HI     | FS | MEAN |
|-------|-------------------------|-------|--------|----|------|
| SHAKE | 6.620<br>4.800<br>2.980 | 4.800 | 31.715 | ✓  |      |

BM

|       |       |
|-------|-------|
| 8.050 |       |
| 6.810 | 6.810 |
| 5.570 |       |

| ELEV. | BM<br>ELEV. | DESC |
|-------|-------------|------|
|-------|-------------|------|

SET CUT NL

|        |        |   |
|--------|--------|---|
| 24.905 | 24.870 | NGS # AJ8247 FND FLANGE<br>ENCASED ROD STAMPING<br>M 522 2001 CERP<br>0.2 MILES WEST OF ENTRANCE<br>TO PAYSON PARK, 120' S. OF<br>C. OF ROAD, 4.0' NORTH OF<br>WOODEN FENCE.<br>NAVL 88 |
|--------|--------|---|

ERR = 0.035

A. KLEBER  
A. LOPEZ  
M. MOYA

7/2/05

#03-1715  
S.F. 1115  
"SITE II"

(ELEVATION)

| STA           | BS                       | INSTR | HI    | SP                      | NEW   |
|---------------|--------------------------|-------|-------|-------------------------|-------|
| M1081         | 11.005<br>4.050<br>2.055 |       | 4.050 | 31.875                  |       |
| 2150<br>M1081 |                          |       |       | 6.750<br>6.750<br>6.480 | 6.730 |
| SHAKE         | 6.900<br>6.570<br>6.240  |       | 6.570 | 31.715                  |       |
| TP # 1        |                          |       |       | 5.110<br>4.450<br>3.850 | 4.450 |

2548/50

BM  
ELEV  
DESC

27.825 WELL SITE = M1081

6.730 25.145 ✓

SET S.F. W.M.D. BRAND  
STAMPED M108 2005

||

||

27.235 27.235

OUT NL

NO ERROR ✓

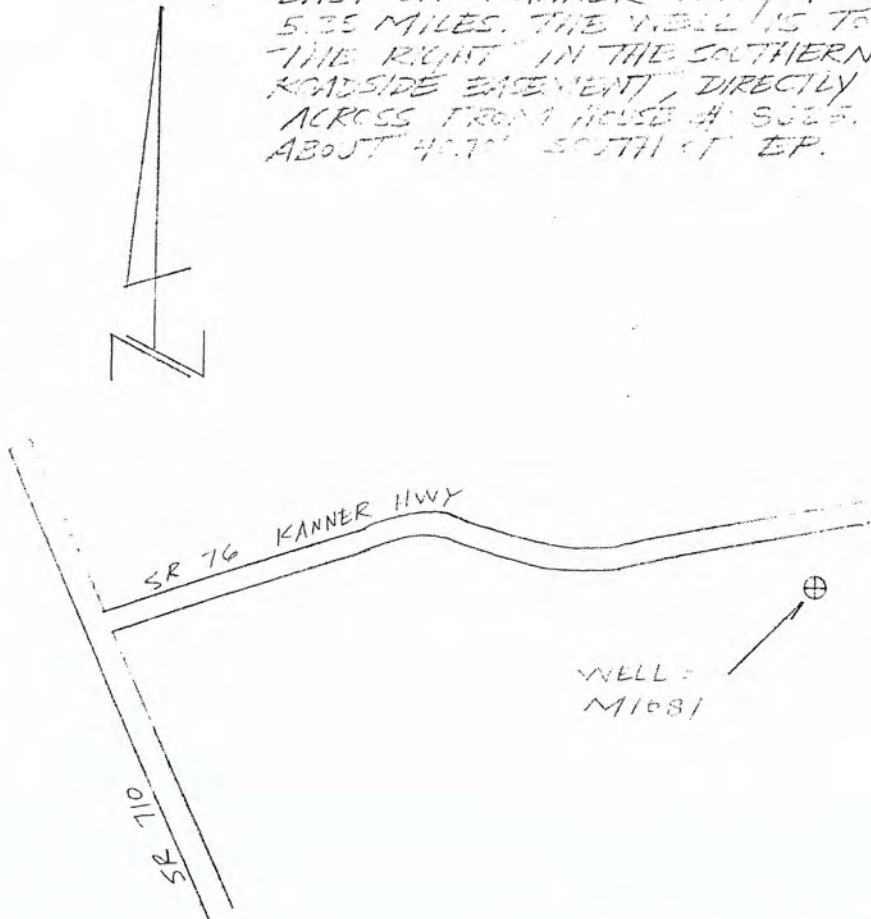
SAME  
CREW

9/2/05

#03-77478  
S.F.W.M.D.

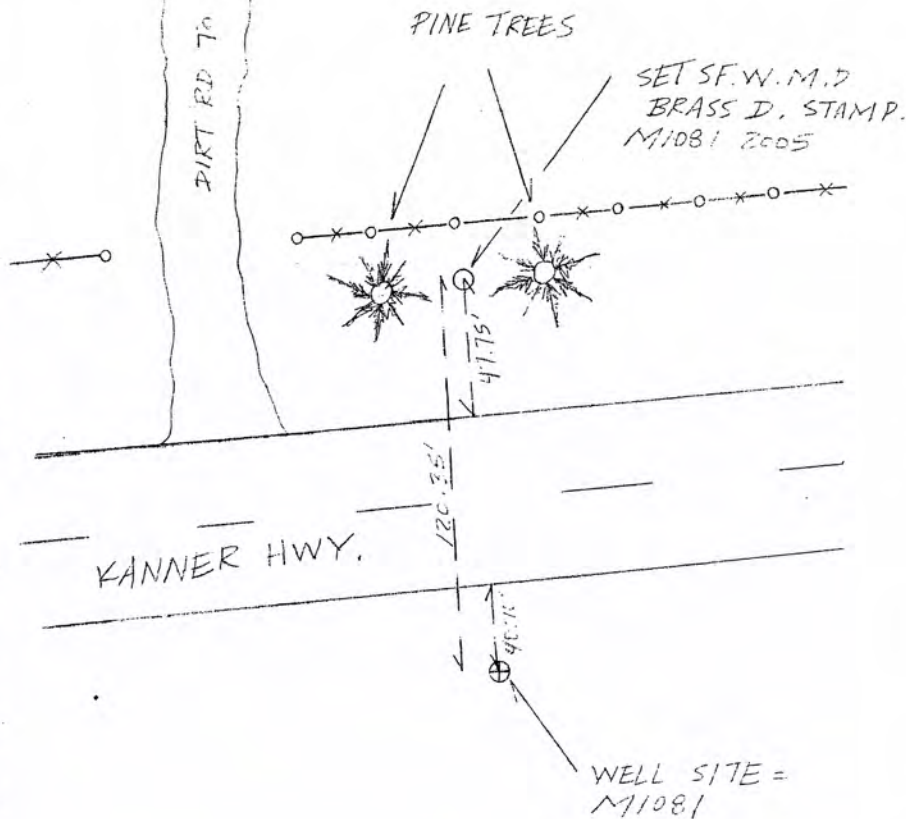
( SITE - II  
DESCRIPTION )

DIRECTIONS - FROM THE INTERSECTION  
OF BEEHIVE HWY (SR 710) AND  
KANNER HWY (SR 76) TRAVEL  
EAST ON KANNER HWY FOR  
5.35 MILES. THE WELL IS TO  
THE RIGHT IN THE SOUTHERN  
ROADSIDE EASEMENT, DIRECTLY  
ACROSS FROM HOUSE # 5625.  
ABOUT 45.7' SOUTH OF EP.



2549/51

5295 # 25001 TO HOUSE # 5625



SAME  
OPEN

#027473  
S.F. W. M. E.  
" SITE - I "

7/2/05

( ESTABLISH  
ELEV. ON WELL  
M1045 )

| STA   | BS    | MEAN  | HI     | FS    | MEAN  | ELEV   | BM<br>ELEV | DESC   |
|-------|-------|-------|--------|-------|-------|--------|------------|--|
|       | 5.755 |       |        |       |       |        |            |  |
| 37M   | 5.010 | 5.010 | 30.740 |       |       |        | 25.730     | N45 # AJ0851 FIND MARK # 547<br>40 EAST END OF TIE<br>SR TO AND SR TO<br>30.4' N OF & SR TO<br>17.5' S OF TIE SET<br>M1045 |
|       | 3.270 |       |        |       |       |        |            | SET CUT NL   |
| TF#1  |       |       |        | 5.540 | 4.090 | 26.650 |            |  |
|       |       |       |        | 4.270 |       |        |            |  |
|       |       |       |        | 3.640 |       |        |            |  |
| SHAPE | 5.970 | 4.340 | 30.970 |       |       |        |            | SET CUT NL   |
|       | 4.340 |       |        |       |       |        |            |  |
|       | 3.760 |       |        |       |       |        |            |  |
| TF#2  |       |       |        | 5.200 | 4.220 | 26.630 |            | SET CUT NL   |
|       |       |       |        | 4.380 |       |        |            |  |
|       |       |       |        | 3.410 |       |        |            |  |
| SHAPE | 4.510 | 4.135 | 30.765 |       |       |        |            | SET CUT NL   |
|       | 4.135 |       |        |       |       |        |            |  |
|       | 3.760 |       |        |       |       |        |            |  |
| M1045 |       |       |        | 6.710 | 6.715 | 24.450 |            | TOP OF PIPE WELL M1045   |
|       |       |       |        | 5.215 |       |        |            |  |
|       |       |       |        | 5.920 |       |        |            |  |

SAME  
CREW

APPROXIMATE  
ELEVATION

"SITE - J"

3.8105

ELEVATION

| STA   | BS                      | MEAN  | HI     | FS | MEAN |
|-------|-------------------------|-------|--------|----|------|
| SHAKE | 6.971<br>6.478<br>6.071 | 6.476 | 30.920 |    |      |

B.M.  
ELEV ELEV ZONE

TOP OF PIPE WELL = 11045

|        |  |  |  |                         |       |
|--------|--|--|--|-------------------------|-------|
| TP # 3 |  |  |  | 4.665<br>4.285<br>3.905 | 4.285 |
|--------|--|--|--|-------------------------|-------|

26.635 ✓

SET CUT NL

|       |                         |       |        |  |  |
|-------|-------------------------|-------|--------|--|--|
| SHAKE | 6.090<br>4.535<br>3.050 | 4.535 | 31.170 |  |  |
|-------|-------------------------|-------|--------|--|--|

SET CUT NL

|        |  |  |  |                         |       |
|--------|--|--|--|-------------------------|-------|
| TP # 4 |  |  |  | 5.960<br>4.530<br>3.100 | 4.530 |
|--------|--|--|--|-------------------------|-------|

26.645 ✓

SET CUT NL

|       |                         |       |        |  |  |
|-------|-------------------------|-------|--------|--|--|
| SHAKE | 5.790<br>4.420<br>2.850 | 4.420 | 31.060 |  |  |
|-------|-------------------------|-------|--------|--|--|

SET CUT NL

|        |  |  |  |                         |       |
|--------|--|--|--|-------------------------|-------|
| TP # 5 |  |  |  | 5.720<br>4.285<br>2.850 | 4.285 |
|--------|--|--|--|-------------------------|-------|

26.775 ✓

SET CUT NL

SAME  
CPLV.

#03-7778  
S.F.W. 17.2.

9/2/05

"SITE-J"

(ELEV. CONT)

| STA    | BS                      | MEAN  | HI     | FS                      | MEAN  | ELEV   | BM<br>ELEV | DESC       |
|--------|-------------------------|-------|--------|-------------------------|-------|--------|------------|------------|
| SHAKE  | 5.950<br>4.440<br>2.930 | 4.440 | 31.215 | ✓                       |       |        |            | SET CUT NL |
| TP # 6 |                         |       |        | 5.860<br>4.340<br>2.200 | 4.340 | 26.875 | ✓          | SET CUT NL |
| SHAKE  | 6.130<br>4.400<br>2.670 | 4.400 | 31.275 | ✓                       |       |        |            | SET CUT NL |
| TP # 7 |                         |       |        | 6.070<br>4.505<br>2.940 | 4.505 | 26.770 | ✓          | SET CUT NL |
| SHAKE  | 6.070<br>4.370<br>2.670 | 4.370 | 31.140 | ✓                       |       |        |            | SET CUT NL |
| TP # 8 |                         |       |        | 6.320<br>4.465<br>2.610 | 4.465 | 26.675 | ✓          | SET CUT NL |



SAME  
SITE

#03-77473  
S.F.V.V.M.I.E

9/2/05

"SITE J"

(ELEV. CONT)

| STA    | IS                      | MEAN  | HL     | FS                      | MEAN  | ELEV   | BM<br>ELEV | DESC       |
|--------|-------------------------|-------|--------|-------------------------|-------|--------|------------|------------|
| SHAKE  | 6.37<br>4.45<br>2.53    | 4.450 | 31.125 |                         |       |        |            | SET CUT NL |
| TP# 9  |                         |       |        | 6.200<br>4.470<br>2.740 | 4.470 | 26.655 | ✓          | SET CUT NL |
| SHAKE  | 6.380<br>4.340<br>2.300 | 4.340 | 30.995 |                         |       |        |            | SET CUT NL |
| TP# 10 |                         |       |        | 6.150<br>4.560<br>2.970 | 4.560 | 26.435 | ✓          | SET CUT NL |
| SHAKE  | 6.190<br>4.375<br>2.500 | 4.395 | 30.830 |                         |       |        |            | SET CUT NL |
| TP# 11 |                         |       |        | 5.660<br>4.215<br>2.770 | 4.215 | 26.615 | ✓          | SET CUT NL |

SAME  
C.P.E.M.

#03-77478  
S. F. W. M. D.

2548/50

7/3/35

"SITE - J"

(ELEV. CONT)

| STA   | BS                      | MEAN  | HI     | FS | MEAN | LLEV | BM<br>ELEV | DESC       |
|-------|-------------------------|-------|--------|----|------|------|------------|------------|
| SHAKE | 6.570<br>4.415<br>2.760 | 4.415 | 31.030 |    |      |      |            | SET CUT NL |

|       |  |  |  |                         |       |        |  |            |
|-------|--|--|--|-------------------------|-------|--------|--|------------|
| TP#12 |  |  |  | 5.120<br>4.500<br>3.270 | 4.500 | 26.530 |  | SET CUT NL |
|-------|--|--|--|-------------------------|-------|--------|--|------------|

|       |                         |       |        |  |  |  |  |             |
|-------|-------------------------|-------|--------|--|--|--|--|-------------|
| SHAKE | 5.736<br>4.210<br>2.690 | 4.210 | 30.740 |  |  |  |  | SET CUT ALL |
|-------|-------------------------|-------|--------|--|--|--|--|-------------|

|    |  |  |  |                         |       |        |        |   |
|----|--|--|--|-------------------------|-------|--------|--------|---|
| BM |  |  |  | 7.440<br>5.880<br>4.320 | 5.880 | 24.820 | 24.880 | NGS# AJ8886 FND FLANGE<br>ENCASED FOR STAMP. E 217<br>GO EAST FOR 5 MILES FROM<br>INTER. OF SR 710 AND SR<br>TO POINT N OF $\frac{1}{2}$ OF RD.<br>11.4' S. OF WITNESS POST<br>NAME B3. |
|----|--|--|--|-------------------------|-------|--------|--------|---|

ERR = 0.020

A. FEDER  
T. LOPEZ  
M. MOYA

#03-77478  
S.F.W.M.D

" SITE - J "

9/6/05

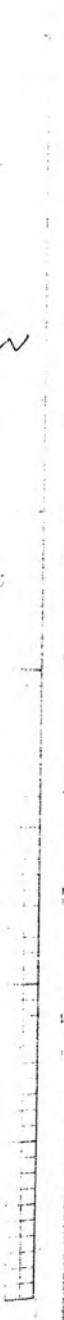
(ELEV. CONT.)

| STA | BS                      | MEAN  | HI     | FS | MEAN | ELEV | BM<br>ELEV | DESC                |
|-----|-------------------------|-------|--------|----|------|------|------------|---------------------|
| BM  | 6.550<br>6.140<br>5.730 | 6.140 | 30.590 |    |      |      | 24.450     | TOP OF PIPE = M1045 |

|               |  |  |  |                         |       |        |  |   |
|---------------|--|--|--|-------------------------|-------|--------|--|---|
| DISC<br>M1045 |  |  |  | 5.435<br>5.230<br>5.165 | 5.289 | 25.305 |  | SET S.F.W.M.D BRASS IN.<br>STAMPED M1045 2005 |
|---------------|--|--|--|-------------------------|-------|--------|--|---|

|       |                         |       |        |  |  |  |  |     |
|-------|-------------------------|-------|--------|--|--|--|--|-----|
| SHAKE | 5.910<br>5.735<br>5.660 | 5.735 | 31.070 |  |  |  |  | " " |
|-------|-------------------------|-------|--------|--|--|--|--|-----|

|    |  |  |  |                         |       |        |        |                               |
|----|--|--|--|-------------------------|-------|--------|--------|-------------------------------|
| BM |  |  |  | 4.670<br>4.460<br>4.250 | 4.430 | 26.630 | 26.630 | TOP OF SET CUT NL<br>NO ERROR |
|----|--|--|--|-------------------------|-------|--------|--------|-------------------------------|



SAME  
CREW

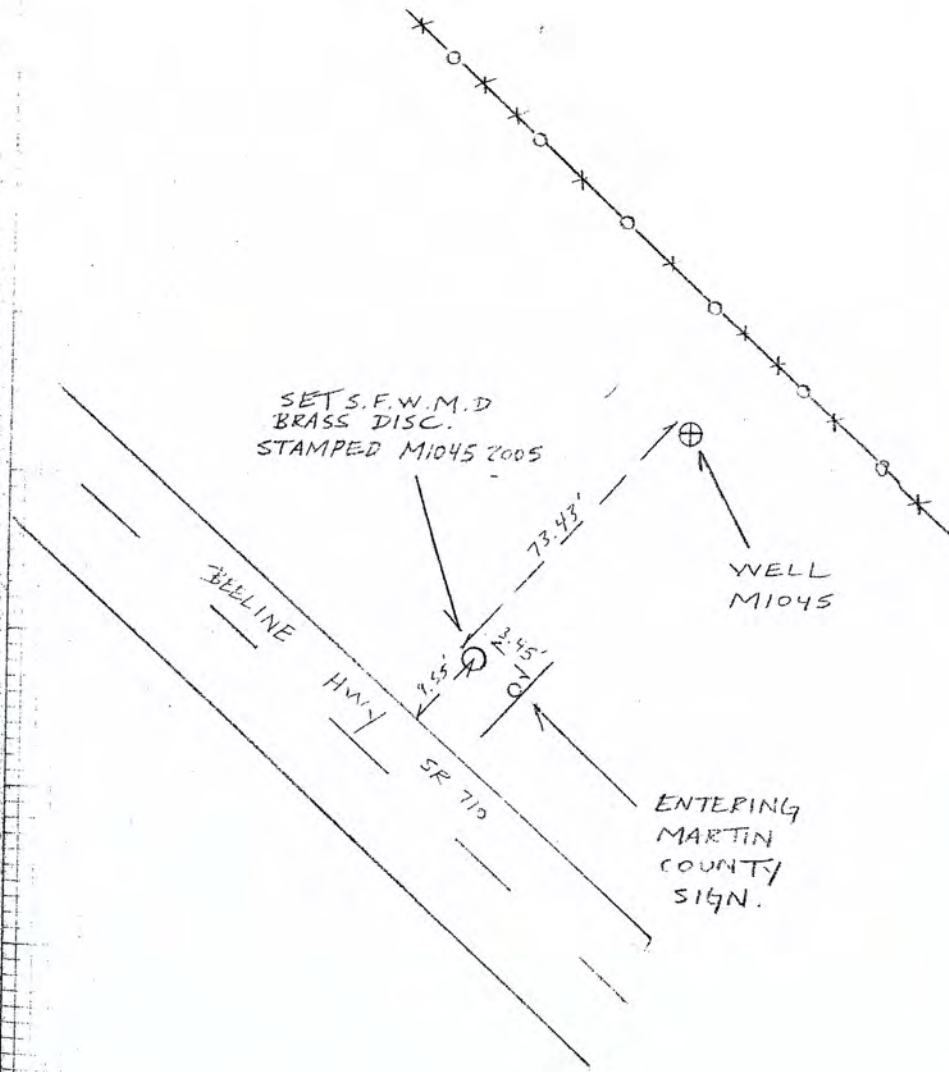
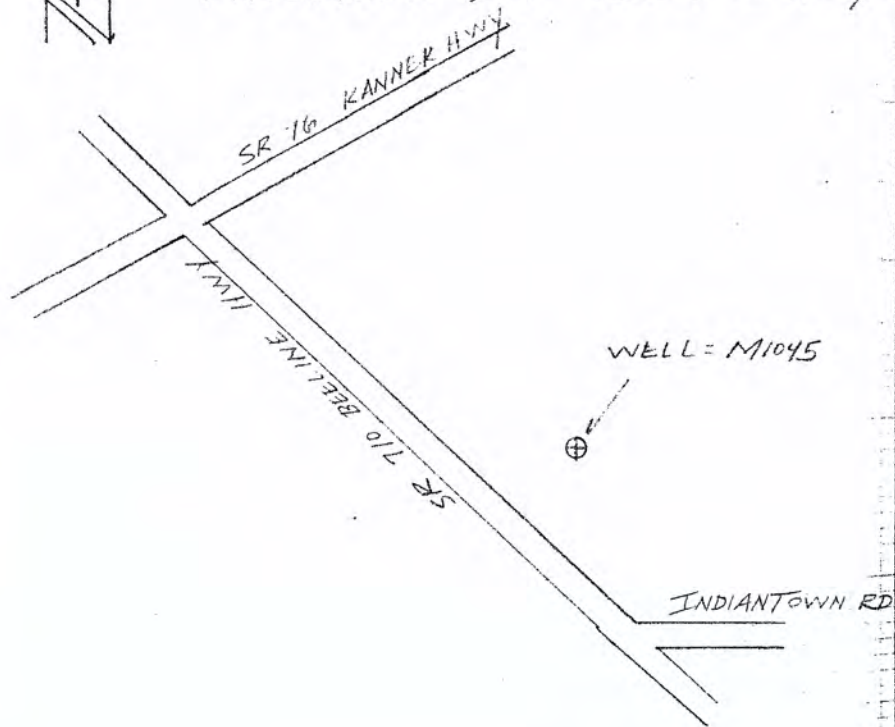
#03-77478  
S.F.W.M.D.

2548 / 58

9/6/05

( SITE - J  
DESCRIPTION )

DIRECTIONS - FROM THE INTERSECTION  
OF BEELINE HWY (SR 710)  
AND KANNER HWY (SR 16),  
TRAVEL SOUTHEAST ON  
BEELINE HWY FOR 6.05 MILES.  
THE WELL IS ON THE LEFT  
BY THE SIGN, ENTERING  
MARTIN COUNTY, 83.00' FT.  
NORTHEAST OF EDGE OF  
PAVEMENT, OF BEELINE HWY.

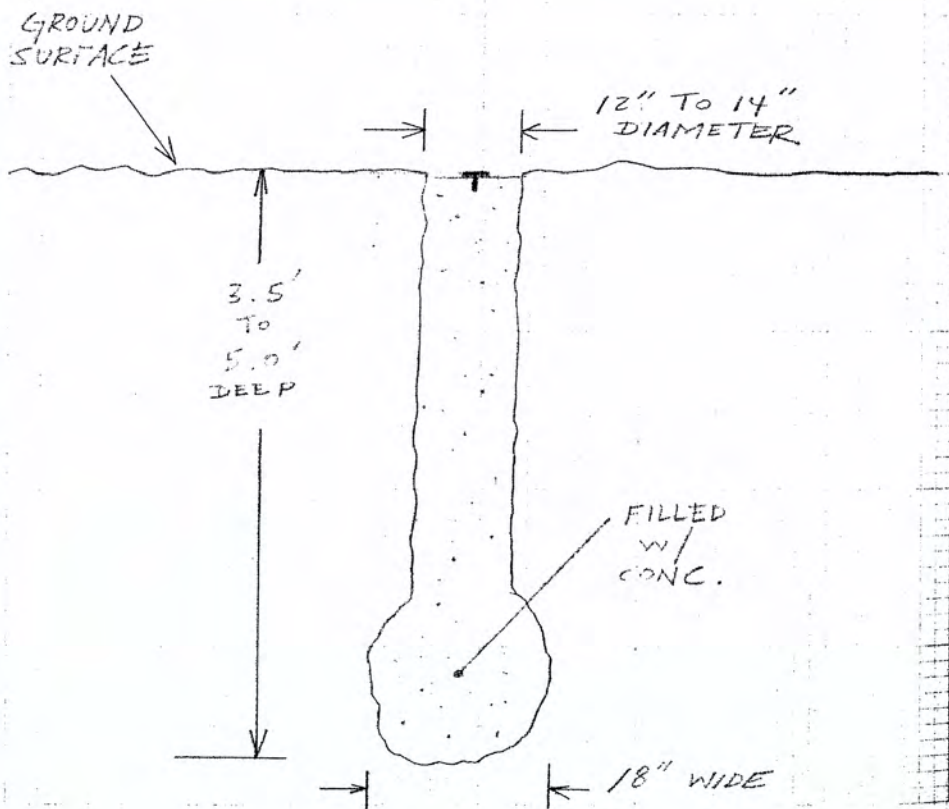


A. REDERO  
T. LOPEZ  
M. MORA

#100-1011F  
S.F. W.M.D.

9/12/05

NOTE: ALL CONCRETE MONUMENTS  
WERE SET ACCORDING TO  
NGS STANDARDS.





SOUTH FLORIDA WATER MANAGEMENT DISTRICT

Rev. 10/10/05

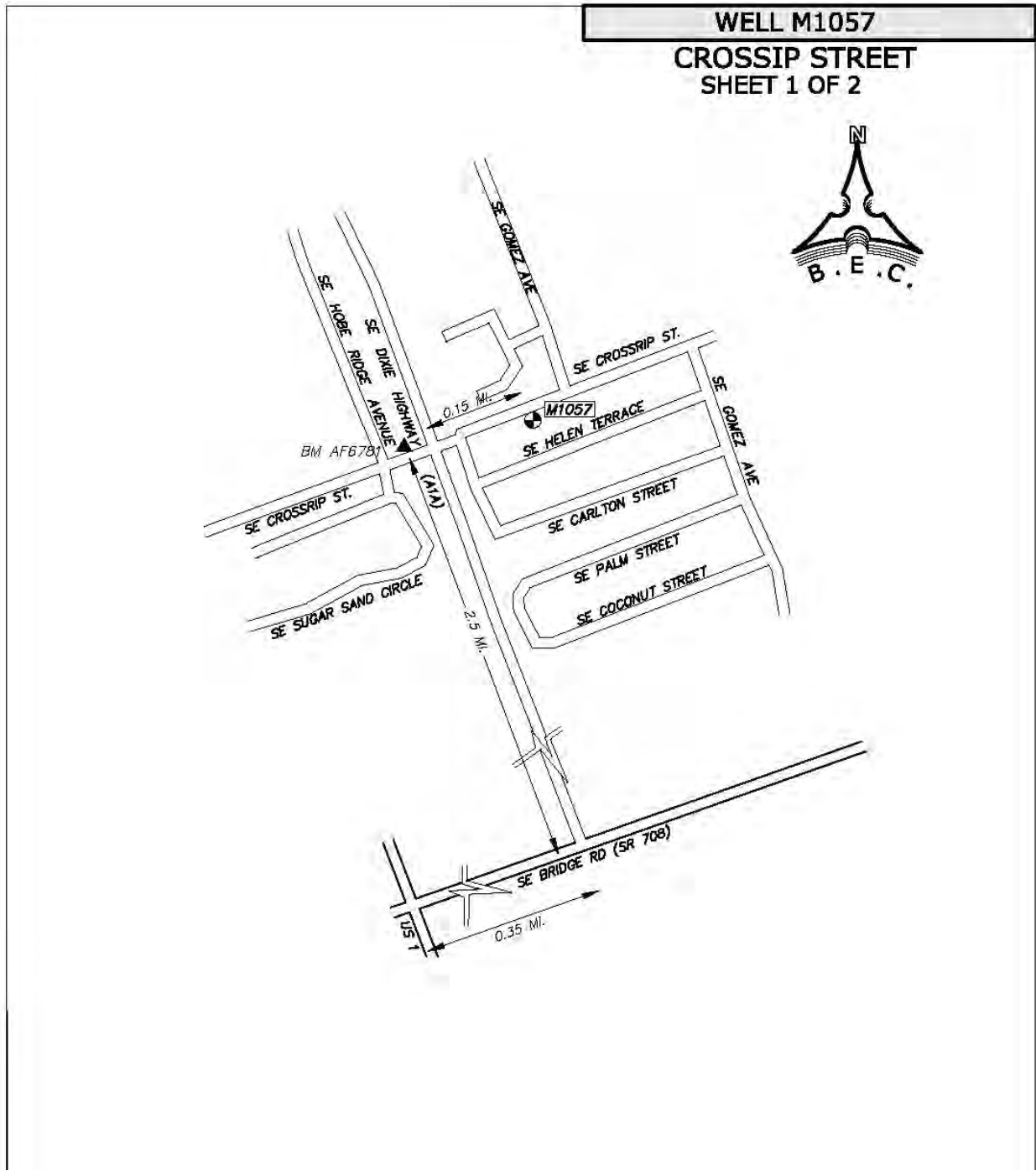
|  |                    |                     |                                       |                                      |            |
|--|--------------------|---------------------|---------------------------------------|--------------------------------------|------------|
| COUNTY   | MARTIN             | PROJECT             | CROSSRIP ST                           | DESIGNATION                          | M1057 2005 |
| SECTION  | <u>GOMEZ GRANT</u> | TOWNSHIP            | ----                                  | RANGE                                | ----       |
| GEOGRAPHIC INDEX OF QUAD <u>Florida</u>  |                    |                     |                                       |                                      |            |
| Established by Biscayne Engineering Company, Inc.  |                    |                     | NAME OF QUADRANGLE <u>GOMEZ</u>       |                                      |            |
| SURVEYOR <u>Mike J. Bartholomew</u><br>DATE <u>09 / 26 / 2005</u>  |                    |                     | FIELD BOOK <u>2548</u> PAGE <u>30</u> |                                      |            |
| HORIZONTAL DATUM: 1927 <input type="checkbox"/> 1983 <input checked="" type="checkbox"/> Other _____ (circle one) ZONE <u>0901 (EAST)</u>  |                    |                     |                                       |                                      |            |
| VERTICAL DATUM: MSL 1929 <input type="checkbox"/> 1988 <input checked="" type="checkbox"/> Other _____ (circle one)  |                    |                     |                                       |                                      |            |
| CONTROL ACCURACY: HORIZONTAL 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input checked="" type="checkbox"/> SUB-METER (circle one) VERTICAL 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input checked="" type="checkbox"/>   |                    |                     |                                       |                                      |            |
| STATE PLANE COORDINATES<br><u>M1057 (U.S. Survey feet)</u>   |                    | <u>X= 933975.74</u> |                                       | <u>Y= 1004892.57</u>                 |            |
|  |                    |                     |                                       | DISC EL.= <u>14.33'</u><br>(NAVD-88) |            |
| LATITUDE M1057 <u>27°05'44.425"N</u>   |                    |                     | LONGITUDE <u>080°08'46.047"W</u>      |                                      |            |
| <b>DESCRIPTION</b>   |                    |                     |                                       |                                      |            |
| BenchmarkI is situated North of S.E. Bridge Road (S.R. 708), South of Cove Road, East of S.E. Dixie Highway (A1A), in the Gomez Grant, Hobe Sound, Martin County, Florida  |                    |                     |                                       |                                      |            |
| <b>TO REACH</b> the benchmark from the intersection of Bridge Road (S.R. 708) and U.S. 1 (S.E. Federal Highway), travel East on Bridge Road for 0.35 miles to the intersection with A1A (S.E. Dixie Highway). Turn left and proceed North on A1A for 2.5 miles to the intersection with Crossrip Street. Turn right and proceed East on Crossrip Street for 0.15 miles to the benchmark on the left (North), opposite residence #7990. Benchmark is a standard SFWMD disc set in concrete and stamped "M1057 2005", lying 0.5 feet South of the South face of a concrete sidewalk, 53 feet North of well M1057, and 15.4 feet West of the Northerly projection of the West edge of the driveway for residence #8000. |                    |                     |                                       |                                      |            |
| Origin of NAVD88 elevation for BM "M1057" is a closed bench level circuit through NGS benchmarks AF7555 (872 2414 H) and AF6781 (PINE RM 3)  |                    |                     |                                       |                                      |            |
|  |                    |                     |                                       |                                      |            |
|  |                    |                     |                                       |                                      |            |
|  |                    |                     |                                       |                                      |            |

SKETCH: SEE PAGE 2 and 3



SOUTH FLORIDA WATER MANAGEMENT DISTRICT

Rev. 10/10/05



|   |                  |  |                     |
|---|------------------|--|---------------------|
| <b>WELL M1057</b>   |                  | <b>MARTIN COUNTY TAPE DOWN WELLS</b>   |                     |
| <small>(\SURVEY\PROJECTS\772026\77278-DIVISION-MARTIN COUNTY WELLS\DWG\DWG1057.dwg 10/10/2005 3:56:43 PM EDT)</small> |                  |  |                     |
| PREPARED FOR:   | FIELD BOOK: 2548 | DATE: 10/10/05   | ORDER NO.: 03-77478 |
| SOUTH FLORIDA<br>WATER MANAGEMENT<br>DISTRICT   |                  | PREPARED BY:   |                     |
|   |                  | <b>BISCAYNE ENGINEERING COMPANY, INC.</b><br>Consulting Engineers Planners Surveyors<br>529 WEST FLAGLER STREET, MIAMI, FL. 33130 - TEL (305)324-7671 -- FAX (305)324-0809<br>LB #0129 |                     |





## The NGS Data Sheet

See file [dsdata.txt](#) for more information about the datasheet.

DATABASE = Sybase ,PROGRAM = datasheet, VERSION = 7.27

1 National Geodetic Survey, Retrieval Date = SEPTEMBER 20, 2005

AF7555 \*\*\*\*\*

AF7555 TIDAL BM - This is a Tidal Bench Mark.

AF7555 DESIGNATION - 872 2414 H TIDAL

AF7555 PID - AF7555

AF7555 STATE/COUNTY- FL/MARTIN

AF7555 USGS QUAD - GOMEZ (1983)

AF7555

AF7555 \*CURRENT SURVEY CONTROL

AF7555

AF7555\* NAD 83(1986)- 27 05 38. (N) 080 08 35. (W) SCALED

AF7555\* NAVD 88 - 1.466 (meters) 4.81 (feet) ADJUSTED

AF7555

AF7555 GEOID HEIGHT- -27.66 (meters) GEOID03

AF7555 DYNAMIC HT - 1.464 (meters) 4.80 (feet) COMP

AF7555 MODELED GRAV- 979,100.7 (mgal) NAVD 88

AF7555

AF7555 VERT ORDER - SECOND CLASS I

AF7555

AF7555.The horizontal coordinates were scaled from a topographic map and have

AF7555.an estimated accuracy of +/- 6 seconds.

AF7555

AF7555.The orthometric height was determined by differential leveling

AF7555.and adjusted by the National Geodetic Survey in September 1996.

AF7555

AF7555.This Tidal Bench Mark is designated as VM 5478

AF7555.by the [Center for Operational Oceanographic Products and Services](#).

AF7555

AF7555.The geoid height was determined by GEOID03.

AF7555

AF7555.The dynamic height is computed by dividing the NAVD 88

AF7555.geopotential number by the normal gravity value computed on the

AF7555.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45

AF7555.degrees latitude (g = 980.6199 gals.).

AF7555

AF7555.The modeled gravity was interpolated from observed gravity values.

AF7555

AF7555; North East Units Estimated Accuracy

AF7555;SPC FL E - 306,100. 284,980. MT (+/- 180 meters Scaled)

AF7555

AF7555 SUPERSEDED SURVEY CONTROL

AF7555

AF7555 NGVD 29 (09/01/92) 1.921 (m) 6.30 (f) ADJUSTED 2 1

AF7555

AF7555.Superseded values are not recommended for survey control.

AF7555.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.

AF7555.[See file dsdata.txt](#) to determine how the superseded data were derived.

AF7555

AF7555\_U.S. NATIONAL GRID SPATIAL ADDRESS: 17RNK849971(NAD 83)

AF7555\_MARKER: DJ = TIDAL STATION DISK

AF7555\_SETTING: 30 = SET IN A LIGHT STRUCTURE

AF7555\_SP\_SET: CONCRETE BOX DRAIN

AF7555\_STAMPING: 2414 H TIDAL

AF7555\_MARK LOGO: NOS

AF7555\_STABILITY: D = MARK OF QUESTIONABLE OR UNKNOWN STABILITY

AF7555

| AF7555 | HISTORY | - Date | Condition | Report By |
|--------|---------|--------|-----------|-----------|
|--------|---------|--------|-----------|-----------|

|        |         |        |            |       |
|--------|---------|--------|------------|-------|
| AF7555 | HISTORY | - 1986 | MONUMENTED | FLDNR |
|--------|---------|--------|------------|-------|

AF7555

AF7555 STATION DESCRIPTION

AF7555

AF7555'DESCRIBED BY FL DEPT OF NAT RES 1986

AF7555'2.4 MI NORTH FROM HOBE SOUND.

AF7555'BEGIN AT THE INTERSECTION OF STATE HIGHWAY A1A AND STATE ROAD 707 IN

AF7555'HOBE SOUND, GO EASTERLY 0.1 MILE ALONG STATE ROAD 707 TO THE JUNCTON

AF7555'OF GOMEZ AVENUE, GO NORTHERLY 2.35 MILES ALONG GOMEZ AVENUE TO THE

AF7555'MARK. THE MARK IS SET IN THE NORTHWEST CORNER OF A CONCRETE BOX

AF7555'DRAIN AND BEARS 28.0 FEET WEST OF THE CENTERLINE OF GOMEZ AVENUE,

AF7555'28.0 FEET NORTH OF THE CENTER LINE OF PALM STREET, 5.2 FEET WEST OF

AF7555'THE WEST EDGE OF A SIDEWALK, AND 211.5 FEET NORTH OF 2414 G 1986.

AF7555'THE MARK IS 0.8 FOOT BELOW GROUND.

\*\*\* retrieval complete.

Elapsed Time = 00:00:01

## The NGS Data Sheet

See file [dsdata.txt](#) for more information about the datasheet.

DATABASE = Sybase ,PROGRAM = datasheet, VERSION = 7.27

1 National Geodetic Survey, Retrieval Date = SEPTEMBER 20, 2005

AF6781 \*\*\*\*\*

AF6781 DESIGNATION - PINE RM 3

AF6781 PID - AF6781

AF6781 STATE/COUNTY- FL/MARTIN

AF6781 USGS QUAD - GOMEZ (1983)

AF6781

AF6781 \*CURRENT SURVEY CONTROL

AF6781

AF6781\* NAD 83(1990)- 27 05 41.89203(N) 080 08 53.60628(W) ADJUSTED

AF6781\* NAVD 88 - 6.414 (meters) 21.04 (feet) ADJUSTED

AF6781

AF6781 LAPLACE CORR- -4.04 (seconds) DEFLECC99

AF6781 GEOID HEIGHT- -27.64 (meters) GEOID03

AF6781 DYNAMIC HT - 6.404 (meters) 21.01 (feet) COMP

AF6781 MODELED GRAV- 979,101.0 (mgal) NAVD 88

AF6781

AF6781 HORZ ORDER - THIRD

AF6781 VERT ORDER - FIRST CLASS II

AF6781

AF6781.The horizontal coordinates were established by classical geodetic methods

AF6781.and adjusted by the National Geodetic Survey in May 1991.

AF6781.No horizontal observational check was made to the station.

AF6781

AF6781.The orthometric height was determined by differential leveling

AF6781.and adjusted by the National Geodetic Survey in May 1994.

AF6781

AF6781.The Laplace correction was computed from DEFLECC99 derived deflections.

AF6781

AF6781.The geoid height was determined by GEOID03.

AF6781

AF6781.The dynamic height is computed by dividing the NAVD 88

AF6781.geopotential number by the normal gravity value computed on the

AF6781.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45

AF6781.degrees latitude (g = 980.6199 gals.).

AF6781

AF6781.The modeled gravity was interpolated from observed gravity values.

AF6781

AF6781;

|                 | North           | East           | Units | Scale           | Factor     | Converg. |
|-----------------|-----------------|----------------|-------|-----------------|------------|----------|
| AF6781;SPC FL E | - 306,212.502   | 284,468.664    | MT    | 1.00002922      | +0 23 16.7 |          |
| AF6781;UTM 17   | - 2,997,240.005 | 584,439.844    | MT    | 0.99968802      | +0 23 16.7 |          |
| AF6781!         | - Elev Factor   | x Scale Factor | =     | Combined Factor |            |          |
| AF6781!SPC FL E | - 1.00000333    | x 1.00002922   | =     | 1.00003255      |            |          |
| AF6781!UTM 17   | - 1.00000333    | x 0.99968802   | =     | 0.99969135      |            |          |

AF6781

AF6781

AF6781 SUPERSEDED SURVEY CONTROL

AF6781

AF6781 NAD 83(1986)- 27 05 41.89940(N) 080 08 53.61716(W) AD( ) 3

AF6781 NAVD 88 (06/15/91) 6.428 (m) 21.09 (f) UNKNOWN 1 2

AF6781 NGVD 29 (09/01/92) 6.879 (m) 22.57 (f) ADJUSTED 1 2

AF6781

AF6781.Superseded values are not recommended for survey control.  
 AF6781.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.  
 AF6781.[See file dsdata.txt](#) to determine how the superseded data were derived.  
 AF6781

AF6781\_U.S. NATIONAL GRID SPATIAL ADDRESS: 17RNK8444097240(NAD 83)  
 AF6781\_MARKER: DR = REFERENCE MARK DISK  
 AF6781\_SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT  
 AF6781\_SP\_SET: CONCRETE POST  
 AF6781\_STAMPING: PINE 1929 NO 3 1980  
 AF6781\_MARK LOGO: NGS  
 AF6781\_PROJECTION: FLUSH  
 AF6781\_MAGNETIC: O = OTHER; SEE DESCRIPTION  
 AF6781\_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO  
 AF6781+STABILITY: SURFACE MOTION  
 AF6781\_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR  
 AF6781+SATELLITE: SATELLITE OBSERVATIONS - January 25, 1991

| AF6781 | HISTORY | - Date     | Condition  | Report By |
|--------|---------|------------|------------|-----------|
| AF6781 | HISTORY | - 1980     | MONUMENTED | NGS       |
| AF6781 | HISTORY | - 1980     | GOOD       | FLDNR     |
| AF6781 | HISTORY | - 19800101 | GOOD       | NGS       |
| AF6781 | HISTORY | - 19800107 | GOOD       | USPSQD    |
| AF6781 | HISTORY | - 1990     | GOOD       | USPSQD    |
| AF6781 | HISTORY | - 19910125 | GOOD       | NGS       |

AF6781  
 AF6781 STATION DESCRIPTION  
 AF6781

AF6781'DESCRIBED BY NATIONAL GEODETIC SURVEY 1980  
 AF6781'2.4 MI NW FROM HOBE SOUND.  
 AF6781'2.4 MILES NORTHWEST ALONG STATE HIGHWAY A1A FROM ITS JUNCTION  
 AF6781'WITH STATE ROAD 707 AND C708 AT HOBE SOUND, 88.5 FEET SOUTHWEST  
 AF6781'OF THE CENTER OF STATE HIGHWAY A1A, 35.0 FEET NORTH OF CROSS RIP  
 AF6781'STREET, AND 1.5 FEET SOUTH OF A CONCRETE SURVEY LOT POST AND  
 AF6781'ON ROAD RIGHT-OF-WAY.  
 AF6781'THE MARK IS 1 FT S FROM A WITNESS POST.

AF6781  
 AF6781 STATION RECOVERY (1980)  
 AF6781

AF6781'RECOVERY NOTE BY FL DEPT OF NAT RES 1980  
 AF6781'RECOVERED IN GOOD CONDITION. NEW DESCRIPTION FOLLOWS. THE MARK IS  
 AF6781'LOCATED AT THE INTERSECTION OF CROSSRIP STREET AND STATE HIGHWAY A1A,  
 AF6781'ABOUT 3.0 MILES NORTH OF HOBE SOUND. THE MARK BEARS 35.3 FEET NORTH  
 AF6781'OF THE CENTERLINE OF CROSSRIP STREET, 88.2 FEET WEST OF THE CENTERLINE  
 AF6781'OF STATE HIGHWAY A1A, 106.5 FEET SOUTH OF POWER POLE NO.  
 AF6781'6-7550-4390-0-6, 0.5 FOOT SOUTH OF A WITNESS POST, AND 244.5 FEET  
 AF6781'NORTH OF BENCH MARK PINE 1929 1980.

AF6781  
 AF6781 STATION RECOVERY (1980)  
 AF6781

AF6781'RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1980 (CLN)  
 AF6781'REFERENCE MARK NO 3 IS A STANDARD NGS DISK STAMPED PINE 1929 NO 3  
 AF6781'1980, SET INTO THE TOP OF A ROUND CONCRETE MONUMENT 12 INCHES IN  
 AF6781'DIAMETER FLUSH WITH THE GROUND LOCATED 35.0 FT (10.7 M) N OF CENTER OF  
 AF6781'CROSSRIP ST, 88.5 FT (27.0 M) SW OF THE CENTER OF A1A, 1.0 FT (0.3 M)  
 AF6781'S OF THE METAL WITNESS POST, AND 1.5 FT (0.5 M) S OF LOT SURVEY  
 AF6781'CONCRETE POST.

AF6781  
 AF6781 STATION RECOVERY (1980)  
 AF6781

AF6781'RECOVERY NOTE BY US POWER SQUADRON 1980 (DHF)

AF6781'RECOVERED IN GOOD CONDITION.

AF6781

AF6781 STATION RECOVERY (1990)

AF6781

AF6781'RECOVERY NOTE BY US POWER SQUADRON 1990 (DHF)

AF6781'RECOVERED IN GOOD CONDITION.

AF6781

AF6781 STATION RECOVERY (1991)

AF6781

AF6781'RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1991

AF6781'4.1 KM (2.5 MI) NORTHWESTERLY ALONG STATE HIGHWAY A1A (DIXIE HIGHWAY)

AF6781'FROM THE JUNCTION OF COUNTY ROAD 708 (SOUTHEAST BRIDGE ROAD) IN HOBE

AF6781'SOUND, 27.3 M (89.6 FT) SOUTHWEST OF AND LEVEL WITH THE HIGHWAY

AF6781'CENTERLINE, 14.1 M (46.3 FT) EAST OF THE SOUTHEAST CORNER OF A HOUSE,

AF6781'10.3 M (33.8 FT) NORTHWEST OF THE CENTERLINE OF SOUTHEAST CROSSRIP

AF6781'STREET, 8.3 M (27.2 FT) SOUTHWEST OF THE SOUTHWEST LEG OF A SIGN

AF6781'(EAST RIDGE ESTATES), 0.2 M (0.7 FT) SOUTHEAST OF A WITNESS POST, AND

AF6781'THE MONUMENT IS RECESSED 0.05 M (0.16 FT) BELOW THE GROUND SURFACE.

\*\*\* retrieval complete.

Elapsed Time = 00:00:00

## The NGS Data Sheet

See file [dsdata.txt](#) for more information about the datasheet.

DATABASE = Sybase ,PROGRAM = datasheet, VERSION = 7.27

1 National Geodetic Survey, Retrieval Date = SEPTEMBER 20, 2005

AJ5261 \*\*\*\*\*

AJ5261 DESIGNATION - GCY D19

AJ5261 PID - AJ5261

AJ5261 STATE/COUNTY- FL/MARTIN

AJ5261 USGS QUAD - GOMEZ (1983)

AJ5261

AJ5261 \*CURRENT SURVEY CONTROL

AJ5261

AJ5261\* NAD 83(1999)- 27 04 56.28433(N) 080 08 47.09898(W) ADJUSTED

AJ5261\* NAVD 88 - 7.675 (meters) 25.18 (feet) ADJUSTED

AJ5261

AJ5261 X - 972,489.945 (meters) COMP

AJ5261 Y - -5,598,892.752 (meters) COMP

AJ5261 Z - 2,886,328.902 (meters) COMP

AJ5261 LAPLACE CORR- -4.03 (seconds) DEFLEC99

AJ5261 ELLIP HEIGHT- -19.92 (meters) (09/27/01) GPS OBS

AJ5261 GEOID HEIGHT- -27.62 (meters) GEOID03

AJ5261 DYNAMIC HT - 7.663 (meters) 25.14 (feet) COMP

AJ5261 MODELED GRAV- 979,100.1 (mgal) NAVD 88

AJ5261

AJ5261 HORZ ORDER - FIRST

AJ5261 VERT ORDER - FIRST CLASS II

AJ5261 ELLP ORDER - FOURTH CLASS II

AJ5261

AJ5261.The horizontal coordinates were established by GPS observations

AJ5261.and adjusted by the National Geodetic Survey in September 2001.

AJ5261

AJ5261.The orthometric height was determined by differential leveling

AJ5261.and adjusted by the National Geodetic Survey in November 2001.

AJ5261

AJ5261.The X, Y, and Z were computed from the position and the ellipsoidal ht.

AJ5261

AJ5261.The Laplace correction was computed from DEFLEC99 derived deflections.

AJ5261

AJ5261.The ellipsoidal height was determined by GPS observations

AJ5261.and is referenced to NAD 83.

AJ5261

AJ5261.The geoid height was determined by GEOID03.

AJ5261

AJ5261.The dynamic height is computed by dividing the NAVD 88

AJ5261.geopotential number by the normal gravity value computed on the

AJ5261.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45

AJ5261.degrees latitude (g = 980.6199 gals.).

AJ5261

AJ5261.The modeled gravity was interpolated from observed gravity values.

AJ5261

AJ5261; North East Units Scale Factor Converg.

AJ5261;SPC FL E - 304,809.942 284,657.450 MT 1.00002962 +0 23 19.1

AJ5261;UTM 17 - 2,995,837.923 584,628.565 MT 0.99968841 +0 23 19.1

AJ5261

AJ5261! - Elev Factor x Scale Factor = Combined Factor

AJ5261!SPC FL E - 1.00000313 x 1.00002962 = 1.00003275  
 AJ5261!UTM 17 - 1.00000313 x 0.99968841 = 0.99969154

AJ5261

AJ5261: Primary Azimuth Mark Grid Az  
 AJ5261:SPC FL E - GCY D18 322 34 52.6  
 AJ5261:UTM 17 - GCY D18 322 34 52.6

AJ5261

| AJ5261 | PID    | Reference Object | Distance       | Geod. Az  |
|--------|--------|------------------|----------------|-----------|
| AJ5261 |        |                  |                | dddmms.s  |
| AJ5261 | AJ5260 | GCY D18          | APPROX. 0.8 KM | 3225811.7 |

AJ5261

AJ5261 SUPERSEDED SURVEY CONTROL

AJ5261

AJ5261.No superseded survey control is available for this station.

AJ5261

AJ5261\_U.S. NATIONAL GRID SPATIAL ADDRESS: 17RNK8462995838(NAD 83)

AJ5261\_MARKER: DH = HORIZONTAL CONTROL DISK

AJ5261\_SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT

AJ5261\_STAMPING: GCY D19 2001

AJ5261\_MARK LOGO: FL-085

AJ5261\_PROJECTION: FLUSH

AJ5261\_MAGNETIC: M = MARKER EQUIPPED WITH BAR MAGNET

AJ5261\_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO

AJ5261+STABILITY: SURFACE MOTION

AJ5261\_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR

AJ5261+SATELLITE: SATELLITE OBSERVATIONS - July 18, 2001

AJ5261

| AJ5261 | HISTORY | Date     | Condition  | Report By |
|--------|---------|----------|------------|-----------|
| AJ5261 | HISTORY | 20010517 | MONUMENTED | GCYI      |
| AJ5261 | HISTORY | 20010718 | GOOD       | GCYI      |

AJ5261

AJ5261 STATION DESCRIPTION

AJ5261

AJ5261'DESCRIBED BY G.C.Y., INCORPORATED 2001 (MDL)

AJ5261'THE STATION IS LOCATED 16.5 KM (10.2 MI) SOUTHEAST OF STUART AND 2.8

AJ5261'KM (1.7

AJ5261'MI) NORTHWEST OF HOBE SOUND NEAR THE EASTERLY RIGHT OF- WAY OF U.S.

AJ5261'HIGHWAY 1 IN THE GOMEZ GRANT, MARTIN COUNTY, FLORIDA.

AJ5261'

AJ5261'TO REACH THE STATION FROM THE INTERSECTION OF U.S. HIGHWAY 1 AND C.R.

AJ5261'708

AJ5261'IN HOBE SOUND, GO NORTHWEST ON U.S. HIGHWAY 1, 2.7 KM (1.7 MI) TO THE

AJ5261'STATION ON THE LEFT.

AJ5261'

AJ5261'STATION IS LOCATED IN FRONT OF THE POST OFFICE IN HOBE SOUND, 10.44 M

AJ5261'(34.25FT) NORTHEAST OF THE NORTHEASTERLY EDGE OF PAVEMENT OF THE

AJ5261'NORTHBOUND LANES OF U.S. HIGHWAY 1 AND 1.25 M (4.10 FT) SOUTHWEST OF A

AJ5261'CARSONITE WITNESS POST AND WEST OF A CONCRETE SIDEWALK.

AJ5261'REFERENCES-

AJ5261'GCY, INC. MAG NAIL AND WASHER IN EASTERLY EDGE OF PAVEMENT OF U.S.

AJ5261'HIGHWAY 1-294 DEG. MAG. AZ.-14.55 M (47.75 FT)

AJ5261'GCY, INC. MAG NAIL AND WASHER IN EASTERLY EDGE OF PAVEMENT OF U.S.

AJ5261'HIGHWAY 1-231 DEG. MAG. AZ. - 10.00 M (32.80 FT)

AJ5261'CONCRETE POWER POLE - 167 DEG MAG. AZ. - 46.33 M (152.0 FT).

AJ5261'GCY, INC. MAG NAIL AND WASHER IN WESTERLY EDGE OF PAVEMENT OF POST

AJ5261'OFFICE ROAD-69 DEG MAG AZ-3.55 M (11.65 FT)

AJ5261'GCY, INC. MAG NAIL AND WASHER IN WESTERLY EDGE OF PAVEMENT OF POST

AJ5261'OFFICE ROAD-116 DEG MAG AZ-5.46 M (17.90 FT)

AJ5261'  
AJ5261'NOTE-  
AJ5261'DEEP ONE MAGNET BURIED AT NORTH SIDE OF MONUMENT.  
AJ5261'  
AJ5261'  
AJ5261  
AJ5261 STATION RECOVERY (2001)  
AJ5261  
AJ5261'RECOVERY NOTE BY G.C.Y., INCORPORATED 2001 (MDL)  
AJ5261'RECOVERED AS DESCRIBED.  
AJ5261'  
AJ5261'  
AJ5261'  
AJ5261'  
AJ5261'  
AJ5261'

\*\*\* retrieval complete.  
Elapsed Time = 00:00:00



## The NGS Data Sheet

See file [dsdata.txt](#) for more information about the datasheet.

DATABASE = Sybase ,PROGRAM = datasheet, VERSION = 7.27

1 National Geodetic Survey, Retrieval Date = SEPTEMBER 20, 2005

AJ5260 \*\*\*\*\*

AJ5260 DESIGNATION - GCY D18

AJ5260 PID - AJ5260

AJ5260 STATE/COUNTY- FL/MARTIN

AJ5260 USGS QUAD - GOMEZ (1983)

AJ5260

AJ5260 \*CURRENT SURVEY CONTROL

AJ5260

AJ5260\* NAD 83(1999)- 27 05 16.28395(N) 080 09 03.95525(W) ADJUSTED

AJ5260\* NAVD 88 - 7.582 (meters) 24.88 (feet) ADJUSTED

AJ5260

AJ5260 X - 971,984.433 (meters) COMP

AJ5260 Y - -5,598,695.965 (meters) COMP

AJ5260 Z - 2,886,876.912 (meters) COMP

AJ5260 LAPLACE CORR- -3.98 (seconds) DEFLEC99

AJ5260 ELLIP HEIGHT- -20.03 (meters) (09/27/01) GPS OBS

AJ5260 GEOID HEIGHT- -27.61 (meters) GEOID03

AJ5260 DYNAMIC HT - 7.571 (meters) 24.84 (feet) COMP

AJ5260 MODELED GRAV- 979,100.7 (mgal) NAVD 88

AJ5260

AJ5260 HORZ ORDER - FIRST

AJ5260 VERT ORDER - FIRST CLASS II

AJ5260 ELLP ORDER - FOURTH CLASS II

AJ5260

AJ5260.The horizontal coordinates were established by GPS observations

AJ5260.and adjusted by the National Geodetic Survey in September 2001.

AJ5260

AJ5260.The orthometric height was determined by differential leveling

AJ5260.and adjusted by the National Geodetic Survey in November 2001.

AJ5260

AJ5260.The X, Y, and Z were computed from the position and the ellipsoidal ht.

AJ5260

AJ5260.The Laplace correction was computed from DEFLEC99 derived deflections.

AJ5260

AJ5260.The ellipsoidal height was determined by GPS observations

AJ5260.and is referenced to NAD 83.

AJ5260

AJ5260.The geoid height was determined by GEOID03.

AJ5260

AJ5260.The dynamic height is computed by dividing the NAVD 88

AJ5260.geopotential number by the normal gravity value computed on the

AJ5260.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45

AJ5260.degrees latitude (g = 980.6199 gals.).

AJ5260

AJ5260.The modeled gravity was interpolated from observed gravity values.

AJ5260

AJ5260; North East Units Scale Factor Converg.

AJ5260;SPC FL E - 305,422.375 284,188.892 MT 1.00002864 +0 23 11.7

AJ5260;UTM 17 - 2,996,450.147 584,160.167 MT 0.99968744 +0 23 11.7

AJ5260

AJ5260! - Elev Factor x Scale Factor = Combined Factor

AJ5260!SPC FL E - 1.00000315 x 1.00002864 = 1.00003179  
 AJ5260!UTM 17 - 1.00000315 x 0.99968744 = 0.99969059

AJ5260

AJ5260: Primary Azimuth Mark Grid Az  
 AJ5260:SPC FL E - GCY D19 142 34 52.4  
 AJ5260:UTM 17 - GCY D19 142 34 52.4

AJ5260

| AJ5260 | PID    | Reference Object | Distance       | Geod. Az  |
|--------|--------|------------------|----------------|-----------|
| AJ5260 |        |                  |                | dddmms.s  |
| AJ5260 | AJ5261 | GCY D19          | APPROX. 0.8 KM | 1425804.1 |

AJ5260

AJ5260 SUPERSEDED SURVEY CONTROL

AJ5260

AJ5260.No superseded survey control is available for this station.

AJ5260

AJ5260\_U.S. NATIONAL GRID SPATIAL ADDRESS: 17RNK8416096450(NAD 83)

AJ5260\_MARKER: DH = HORIZONTAL CONTROL DISK

AJ5260\_SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT

AJ5260\_STAMPING: GCY D18 2001

AJ5260\_MARK LOGO: FL-085

AJ5260\_PROJECTION: FLUSH

AJ5260\_MAGNETIC: M = MARKER EQUIPPED WITH BAR MAGNET

AJ5260\_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO

AJ5260+STABILITY: SURFACE MOTION

AJ5260\_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR

AJ5260+SATELLITE: SATELLITE OBSERVATIONS - July 18, 2001

AJ5260

| AJ5260 | HISTORY | Date     | Condition  | Report By |
|--------|---------|----------|------------|-----------|
| AJ5260 | HISTORY | 20010517 | MONUMENTED | GCYI      |
| AJ5260 | HISTORY | 20010718 | GOOD       | GCYI      |

AJ5260

AJ5260 STATION DESCRIPTION

AJ5260

AJ5260'DESCRIBED BY G.C.Y., INCORPORATED 2001 (MDL)

AJ5260'THE STATION IS LOCATED 15.7 KM (9.8 MI) SOUTHEAST OF STUART AND 3.6 KM  
 AJ5260'2.2 MI)

AJ5260'NORTHWEST OF HOBE SOUND NEAR THE WESTERLY RIGHT OF- WAY OF U.S.

AJ5260'HIGHWAY 1 IN THE GOMEZ GRANT, MARTIN COUNTY, FLORIDA.

AJ5260'

AJ5260'TO REACH THE STATION FROM THE INTERSECTION OF U.S. HIGHWAY 1 AND C.R.

AJ5260'708

AJ5260'IN HOBE SOUND, GO NORTHWEST ON U.S. HIGHWAY 1, 3.5 KM (2.2 MI) TO THE

AJ5260'STATION ON THE LEFT.

AJ5260'

AJ5260'STATION IS LOCATED OPPOSITE THE MANORS NURSING HOME , 10.15 M (33.3FT)

AJ5260'SOUTHWEST OF THE SOUTHWESTLERLY EDGE OF PAVEMENT OF THE

AJ5260'SOUTHBOUND LANES OF U.S. HIGHWAY 1 AND 12.59 M (41.3FT) NORTHEAST OF A

AJ5260'CARSONITE WITNESS POST AND WEST OF A CONCRETE SIDEWALK.

AJ5260'REFERENCES-

AJ5260'GCY, INC. MAG NAIL AND WASHER IN WESTERLY EDGE OF PAVEMENT OF U.S.

AJ5260'HIGHWAY 1-35 DEG. MAG. AZ.-16.67 M (54.7 FT)

AJ5260'GCY, INC. MAG NAIL AND WASHER IN WESTERLY EDGE OF PAVEMENT OF U.S.

AJ5260'HIGHWAY 1- 102 DEG. MAG. AZ. - 19.40 M (63.65 FT)

AJ5260'CONCRETE POWER POLE - 167 DEG MAG. AZ. - 46.33 M (152.0 FT).

AJ5260'

AJ5260'NOTE-

AJ5260'DEEP ONE MAGNET BURIED AT NORTH SIDE OF MONUMENT.

AJ5260'

AJ5260 '  
AJ5260  
AJ5260 STATION RECOVERY (2001)  
AJ5260  
AJ5260 'RECOVERY NOTE BY G.C.Y., INCORPORATED 2001 (MDL)  
AJ5260 'RECOVERED AS DESCRIBED.  
AJ5260 '  
AJ5260 '  
AJ5260 '  
AJ5260 '  
AJ5260 '

\*\*\* retrieval complete.  
Elapsed Time = 00:00:00

**LEVEL RUN**

| DATE      | STA              | BS   | MEAN | HI    | FS   | MEAN | ELEV  | BM ELEV. | NOTES        |
|-----------|------------------|------|------|-------|------|------|-------|----------|--------------|
|           |                  |      |      |       |      |      |       | NAVD-88  |              |
| 08/08/05  | NGS BM           | 8.08 |      |       |      |      |       |          |              |
| (FB 2548, | AF7555           | 6.56 | 6.56 | 11.37 |      |      |       | 4.81     |              |
| PG 30...) | 872 2414 H TIDAL | 5.03 |      |       |      |      |       |          |              |
|           |                  |      |      |       | 7.81 |      |       |          |              |
|           | TP#1             |      |      |       | 5.35 | 5.35 | 6.02  |          |              |
|           |                  |      |      |       | 2.89 |      |       |          |              |
|           |                  | 9.84 |      |       |      |      |       |          |              |
|           | SHAKE            | 8.25 | 8.25 | 14.27 |      |      |       |          |              |
|           |                  | 6.66 |      |       |      |      |       |          |              |
|           |                  |      |      |       | 3.77 |      |       |          |              |
|           | TP#2             |      |      |       | 1.98 | 1.98 | 12.29 |          |              |
|           |                  |      |      |       | 0.19 |      |       |          |              |
|           |                  | 6.49 |      |       |      |      |       |          |              |
|           | SHAKE            | 6.11 | 6.11 | 18.40 |      |      |       |          |              |
|           |                  | 5.73 |      |       |      |      |       |          |              |
|           | WELL             |      |      |       | 4.33 |      |       |          | TOP OF PIPE  |
|           | M 1057           |      |      |       | 3.99 | 3.99 | 14.41 |          | WELL         |
|           |                  |      |      |       | 3.66 |      |       |          | M 1057       |
|           |                  | 9.00 |      |       |      |      |       |          |              |
|           | SHAKE            | 7.59 | 7.59 | 22.00 |      |      |       |          |              |
|           |                  | 6.18 |      |       |      |      |       |          |              |
|           |                  |      |      |       | 2.94 |      |       |          |              |
|           | TP#3             |      |      |       | 1.75 | 1.75 | 20.25 |          |              |
|           |                  |      |      |       | 0.55 |      |       |          |              |
|           |                  | 6.79 |      |       |      |      |       |          |              |
|           | SHAKE            | 6.42 | 6.42 | 26.67 |      |      |       |          |              |
|           |                  | 6.05 |      |       |      |      |       |          |              |
|           | NGS BM           |      |      |       | 6.25 |      |       |          | ERROR        |
|           | AF6781           |      |      |       | 5.60 | 5.60 | 21.07 | 21.04    | -0.03        |
|           | PINE RM 3        |      |      |       | 4.95 |      |       |          |              |
|           | WELL             | 4.40 |      |       |      |      |       |          | TOP OF PIPE  |
|           | M 1057           | 4.08 | 4.08 | 18.49 |      |      |       | 14.41    | WELL         |
|           |                  | 3.76 |      |       |      |      |       |          | M 1057       |
| (FB 2548, | BM               |      |      |       | 4.39 |      |       |          | SET SFWMD    |
| PG 32)    | DISC             |      |      |       | 4.16 | 4.16 | 14.33 |          | DISC STAMPED |
| 08/08/05  | M 1057           |      |      |       | 3.93 |      |       |          | M 1057 2005  |

**Note: The NGS values for 872 2414 H Tidal (af7555) and NGS Pine RM3 (AF6781) have changed see this report.  
The new values are shown on the "adjusted sheet."  
THE "ADJUSTED SHEET" IS NOT PART OF THE SURVEY REPORT.**

**HJE 10/19/2015**

# The NGS Data Sheet

See file [dsdata.txt](#) for more information about the datasheet.

```

PROGRAM = datasheet95, VERSION = 8.8
1      National Geodetic Survey,      Retrieval Date = OCTOBER 16, 2015
AF7555 *****
AF7555 TIDAL BM      - This is a Tidal Bench Mark.
AF7555 DESIGNATION - 872 2414 H
AF7555 PID          - AF7555
AF7555 STATE/COUNTY- FL/MARTIN
AF7555 COUNTRY      - US
AF7555 USGS QUAD    - GOMEZ (1983)
AF7555
AF7555                      *CURRENT SURVEY CONTROL
AF7555
AF7555* NAD 83(1986) POSITION- 27 05 39.45 (N) 080 08 34.51 (W) HD HELD1
AF7555* NAVD 88 ORTHO HEIGHT - 1.467 (meters) 4.81 (feet) ADJUSTED
AF7555
AF7555 GEOID HEIGHT      - -27.682 (meters) GEOID12B
AF7555 DYNAMIC HEIGHT    - 1.464 (meters) 4.80 (feet) COMP
AF7555 MODELED GRAVITY    - 979,100.7 (mgal) NAVD 88
AF7555
AF7555 VERT ORDER        - SECOND CLASS I
AF7555
AF7555.The horizontal coordinates were determined by differentially corrected
AF7555.hand held GPS observations or other comparable positioning techniques
AF7555.and have an estimated accuracy of +/- 3 meters.
AF7555.
AF7555.The orthometric height was determined by differential leveling and
AF7555.adjusted by the NATIONAL GEODETIC SURVEY
AF7555.in September 1996.
AF7555
AF7555.Significant digits in the geoid height do not necessarily reflect accuracy.
AF7555.GEOID12B height accuracy estimate available here.
AF7555
AF7555.This Tidal Bench Mark is designated as VM 5478
AF7555.by the CENTER FOR OPERATIONAL OCEANOGRAPHIC PRODUCTS AND SERVICES.
AF7555
AF7555.Photographs are available for this station.
AF7555
AF7555.The dynamic height is computed by dividing the NAVD 88
AF7555.geopotential number by the normal gravity value computed on the
AF7555.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
AF7555.degrees latitude (g = 980.6199 gals.).
AF7555
AF7555.The modeled gravity was interpolated from observed gravity values.
AF7555
AF7555;
AF7555;          North          East          Units  Estimated Accuracy
AF7555;SPC FL E    - 306,140.9    284,995.2    MT    (+/- 3 meters HH1 GPS)
AF7555
AF7555                      SUPERSEDED SURVEY CONTROL
AF7555
AF7555 NGVD 29 (09/01/92) 1.921 (m) 6.30 (f) ADJUSTED 2 1
AF7555
AF7555.Superseded values are not recommended for survey control.
AF7555
AF7555.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.
AF7555.See file dsdata.txt to determine how the superseded data were derived.
AF7555
AF7555_U.S. NATIONAL GRID SPATIAL ADDRESS: 17RNK8496697168(NAD 83)

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AF7555  
AF7555\_MARKER: DJ = TIDAL STATION DISK  
AF7555\_SETTING: 31 = SET IN A PAVEMENT SUCH AS STREET, SIDEWALK, CURB, ETC.  
AF7555\_SP\_SET: BOX DRAIN  
AF7555\_STAMPING: 2414 H 1986  
AF7555\_MARK LOGO: NOS  
AF7555\_MAGNETIC: N = NO MAGNETIC MATERIAL  
AF7555\_STABILITY: D = MARK OF QUESTIONABLE OR UNKNOWN STABILITY  
AF7555\_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR  
AF7555+SATELLITE: SATELLITE OBSERVATIONS - October 14, 2005

AF7555  
AF7555 HISTORY - Date Condition Report By  
AF7555 HISTORY - 1986 MONUMENTED FLDNR  
AF7555 HISTORY - 20051014 GOOD FLDEP

AF7555  
AF7555 STATION DESCRIPTION

AF7555'DESCRIBED BY FL DEPT OF NAT RES 1986  
AF7555'2.4 MI NORTH FROM HOBE SOUND.  
AF7555'BEGIN AT THE INTERSECTION OF STATE HIGHWAY A1A AND STATE ROAD 707 IN  
AF7555'HOBE SOUND, GO EASTERLY 0.1 MILE ALONG STATE ROAD 707 TO THE JUNCTON  
AF7555'OF GOMEZ AVENUE, GO NORTHERLY 2.35 MILES ALONG GOMEZ AVENUE TO THE  
AF7555'MARK. THE MARK IS SET IN THE NORTHWEST CORNER OF A CONCRETE BOX  
AF7555'DRAIN AND BEARS 28.0 FEET WEST OF THE CENTERLINE OF GOMEZ AVENUE,  
AF7555'28.0 FEET NORTH OF THE CENTER LINE OF PALM STREET, 5.2 FEET WEST OF  
AF7555'THE WEST EDGE OF A SIDEWALK, AND 211.5 FEET NORTH OF 2414 G 1986.  
AF7555'THE MARK IS 0.8 FOOT BELOW GROUND.

AF7555  
AF7555 STATION RECOVERY (2005)

AF7555  
AF7555'RECOVERY NOTE BY FL DEPT OF ENV PRO 2005 (JRH)  
AF7555'RECOVERED AS DESCRIBED.

\*\*\* retrieval complete.  
Elapsed Time = 00:00:02

# The NGS Data Sheet

See file [dsdata.txt](#) for more information about the datasheet.

```

PROGRAM = datasheet95, VERSION = 8.8
1      National Geodetic Survey,      Retrieval Date = OCTOBER 19, 2015
AF6781 *****
AF6781 TIDAL BM      - This is a Tidal Bench Mark.
AF6781 DESIGNATION - PINE RM 3
AF6781 PID          - AF6781
AF6781 STATE/COUNTY- FL/MARTIN
AF6781 COUNTRY      - US
AF6781 USGS QUAD    - GOMEZ (1983)
AF6781
AF6781                      *CURRENT SURVEY CONTROL
AF6781
AF6781* NAD 83(1990) POSITION- 27 05 41.89203(N) 080 08 53.60628(W) NO CHECK
AF6781* NAVD 88 ORTHO HEIGHT -      6.424 (meters)      21.08 (feet) ADJUSTED
AF6781
AF6781 LAPLACE CORR      -      -4.10 (seconds)          DEFLEC12B
AF6781 GEOID HEIGHT     -      -27.663 (meters)          GEOID12B
AF6781 DYNAMIC HEIGHT   -      6.414 (meters)          21.04 (feet) COMP
AF6781 MODELED GRAVITY   -      979,101.0 (mgal)          NAVD 88
AF6781
AF6781 HORZ ORDER        - THIRD
AF6781 VERT ORDER         - SECOND      CLASS I
AF6781
AF6781.The horizontal coordinates were established by classical geodetic methods
AF6781.and adjusted by the National Geodetic Survey in May 1991.
AF6781.
AF6781.No horizontal observational check was made to the station.
AF6781.
AF6781.The orthometric height was determined by differential leveling and
AF6781.adjusted by the NATIONAL GEODETIC SURVEY
AF6781.in June 2011.
AF6781
AF6781.Significant digits in the geoid height do not necessarily reflect accuracy.
AF6781.GEOID12B height accuracy estimate available here.
AF6781
AF6781.This Tidal Bench Mark is designated as VM 18918
AF6781.by the CENTER FOR OPERATIONAL OCEANOGRAPHIC PRODUCTS AND SERVICES.
AF6781
AF6781.This Tidal Bench Mark is designated as VM 18923
AF6781.by the CENTER FOR OPERATIONAL OCEANOGRAPHIC PRODUCTS AND SERVICES.
AF6781
AF6781.Photographs are available for this station.
AF6781
AF6781.The Laplace correction was computed from DEFLEC12B derived deflections.
AF6781
AF6781.The dynamic height is computed by dividing the NAVD 88
AF6781.geopotential number by the normal gravity value computed on the
AF6781.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
AF6781.degrees latitude (g = 980.6199 gals.).
AF6781
AF6781.The modeled gravity was interpolated from observed gravity values.
AF6781
AF6781. The following values were computed from the NAD 83(1990) position.
AF6781
AF6781;
AF6781;          North          East          Units Scale Factor Converg.
AF6781;SPC FL E      -      306,212.502      284,468.664      MT      1.00002922      +0 23 16.7
AF6781;SPC FL E      -      1,004,632.18      933,294.28      sFT      1.00002922      +0 23 16.7

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AF6781;UTM 17 - 2,997,240.005 584,439.844 MT 0.99968802 +0 23 16.7
AF6781
AF6781! - Elev Factor x Scale Factor = Combined Factor
AF6781!SPC FL E - 1.00000334 x 1.00002922 = 1.00003256
AF6781!UTM 17 - 1.00000334 x 0.99968802 = 0.99969136

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AF6781

AF6781 SUPERSEDED SURVEY CONTROL

AF6781

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AF6781 NAD 83(1986)- 27 05 41.89940(N) 080 08 53.61716(W) AD( ) 3
AF6781 NAVD 88 (05/20/94) 6.414 (m) 21.04 (f) SUPERSEDED 1 2
AF6781 NAVD 88 (06/15/91) 6.428 (m) 21.09 (f) SUPERSEDED 1 2
AF6781 NGVD 29 (01/31/13) 6.37 (m) 20.9 (f) RESET 3
AF6781 NGVD 29 (09/01/92) 6.879 (m) 22.57 (f) ADJUSTED 1 2
AF6781 NGVD 29 (10/23/89) 6.88 (m) 22.6 (f) LEVELING 3

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AF6781

AF6781.Superseded values are not recommended for survey control.

AF6781

AF6781.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.

AF6781.[See file dsdata.txt](#) to determine how the superseded data were derived.

AF6781

AF6781\_U.S. NATIONAL GRID SPATIAL ADDRESS: 17RNK8443997240(NAD 83)

AF6781

AF6781\_MARKER: DR = REFERENCE MARK DISK

AF6781\_SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT

AF6781\_STAMPING: PINE 1929 NO 3 1980

AF6781\_MARK LOGO: NGS

AF6781\_PROJECTION: FLUSH

AF6781\_MAGNETIC: N = NO MAGNETIC MATERIAL

AF6781\_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO

AF6781+STABILITY: SURFACE MOTION

AF6781\_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR

AF6781+SATELLITE: SATELLITE OBSERVATIONS - November 18, 2005

AF6781

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AF6781 HISTORY - Date Condition Report By
AF6781 HISTORY - 1980 MONUMENTED NGS
AF6781 HISTORY - 1980 GOOD FLDNR
AF6781 HISTORY - 19800101 GOOD NGS
AF6781 HISTORY - 19800107 GOOD USPSQD
AF6781 HISTORY - 1990 GOOD USPSQD
AF6781 HISTORY - 19910125 GOOD NGS
AF6781 HISTORY - 20051118 GOOD FLDEP

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AF6781

AF6781 STATION DESCRIPTION

AF6781

AF6781'DESCRIBED BY NATIONAL GEODETIC SURVEY 1980

AF6781'2.4 MI NW FROM HOBE SOUND.

AF6781'2.4 MILES NORTHWEST ALONG STATE HIGHWAY A1A FROM ITS JUNCTION

AF6781'WITH STATE ROAD 707 AND C708 AT HOBE SOUND, 88.5 FEET SOUTHWEST

AF6781'OF THE CENTER OF STATE HIGHWAY A1A, 35.0 FEET NORTH OF CROSS RIP

AF6781'STREET, AND 1.5 FEET SOUTH OF A CONCRETE SURVEY LOT POST AND

AF6781'ON ROAD RIGHT-OF-WAY.

AF6781'THE MARK IS 1 FT S FROM A WITNESS POST.

AF6781

AF6781 STATION RECOVERY (1980)

AF6781

AF6781'RECOVERY NOTE BY FL DEPT OF NAT RES 1980

AF6781'RECOVERED IN GOOD CONDITION. NEW DESCRIPTION FOLLOWS. THE MARK IS

AF6781'LOCATED AT THE INTERSECTION OF CROSSRIP STREET AND STATE HIGHWAY A1A,

AF6781'ABOUT 3.0 MILES NORTH OF HOBE SOUND. THE MARK BEARS 35.3 FEET NORTH

AF6781'OF THE CENTERLINE OF CROSSRIP STREET, 88.2 FEET WEST OF THE CENTERLINE

AF6781'OF STATE HIGHWAY A1A, 106.5 FEET SOUTH OF POWER POLE NO.

AF6781'6-7550-4390-0-6, 0.5 FOOT SOUTH OF A WITNESS POST, AND 244.5 FEET

AF6781'NORTH OF BENCH MARK PINE 1929 1980.

AF6781

AF6781 STATION RECOVERY (1980)

AF6781



AF6781'RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1980 (CLN)  
AF6781'REFERENCE MARK NO 3 IS A STANDARD NGS DISK STAMPED PINE 1929 NO 3  
AF6781'1980, SET INTO THE TOP OF A ROUND CONCRETE MONUMENT 12 INCHES IN  
AF6781'DIAMATER FLUSH WITH THE GROUND LOCATED 35.0 FT (10.7 M) N OF CENTER OF  
AF6781'CROSSRIP ST, 88.5 FT (27.0 M) SW OF THE CENTER OF AIA, 1.0 FT (0.3 M)  
AF6781'S OF THE METAL WITNESS POST, AND 1.5 FT (0.5 M) S OF LOT SURVEY  
AF6781'CONCRETE POST.

AF6781

AF6781 STATION RECOVERY (1980)

AF6781

AF6781'RECOVERY NOTE BY US POWER SQUADRON 1980 (DHF)

AF6781'RECOVERED IN GOOD CONDITION.

AF6781

AF6781 STATION RECOVERY (1990)

AF6781

AF6781'RECOVERY NOTE BY US POWER SQUADRON 1990 (DHF)

AF6781'RECOVERED IN GOOD CONDITION.

AF6781

AF6781 STATION RECOVERY (1991)

AF6781

AF6781'RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1991

AF6781'4.1 KM (2.5 MI) NORTHWESTERLY ALONG STATE HIGHWAY A1A (DIXIE HIGHWAY)

AF6781'FROM THE JUNCTION OF COUNTY ROAD 708 (SOUTHEAST BRIDGE ROAD) IN HOBE

AF6781'SOUND, 27.3 M (89.6 FT) SOUTHWEST OF AND LEVEL WITH THE HIGHWAY

AF6781'CENTERLINE, 14.1 M (46.3 FT) EAST OF THE SOUTHEAST CORNER OF A HOUSE,

AF6781'10.3 M (33.8 FT) NORTHWEST OF THE CENTERLINE OF SOUTHEAST CROSSRIP

AF6781'STREET, 8.3 M (27.2 FT) SOUTHWEST OF THE SOUTHWEST LEG OF A SIGN

AF6781'(EAST RIDGE ESTATES), 0.2 M (0.7 FT) SOUTHEAST OF A WITNESS POST, AND

AF6781'THE MONUMENT IS RECESSED 0.05 M (0.16 FT) BELOW THE GROUND SURFACE.

AF6781

AF6781 STATION RECOVERY (2005)

AF6781

AF6781'RECOVERY NOTE BY FL DEPT OF ENV PRO 2005 (JRH)

AF6781'RECOVERED AS DESCRIBED.

\*\*\* retrieval complete.

Elapsed Time = 00:00:05

**LEVEL RUN**

| DATE      | STA              | BS   | MEAN | HI    | FS   | MEAN | ELEV  | BM ELEV. | NOTES        |
|-----------|------------------|------|------|-------|------|------|-------|----------|--------------|
|           |                  |      |      |       |      |      |       | NAVD-88  |              |
| 08/08/05  | NGS BM           | 8.08 |      |       |      |      |       |          |              |
| (FB 2548, | AF7555           | 6.56 | 6.56 | 11.37 |      |      |       | 4.81     |              |
| PG 30...) | 872 2414 H TIDAL | 5.03 |      |       |      |      |       |          |              |
|           |                  |      |      |       | 7.81 |      |       |          |              |
|           | TP#1             |      |      |       | 5.35 | 5.35 | 6.02  |          |              |
|           |                  |      |      |       | 2.89 |      |       |          |              |
|           |                  | 9.84 |      |       |      |      |       |          |              |
|           | SHAKE            | 8.25 | 8.25 | 14.27 |      |      |       |          |              |
|           |                  | 6.66 |      |       |      |      |       |          |              |
|           |                  |      |      |       | 3.77 |      |       |          |              |
|           | TP#2             |      |      |       | 1.98 | 1.98 | 12.29 |          |              |
|           |                  |      |      |       | 0.19 |      |       |          |              |
|           |                  | 6.49 |      |       |      |      |       |          |              |
|           | SHAKE            | 6.11 | 6.11 | 18.40 |      |      |       |          |              |
|           |                  | 5.73 |      |       |      |      |       |          |              |
|           | WELL             |      |      |       | 4.33 |      |       |          | TOP OF PIPE  |
|           | M 1057           |      |      |       | 3.99 | 3.99 | 14.41 |          | WELL         |
|           |                  |      |      |       | 3.66 |      |       |          | M 1057       |
|           |                  | 9.00 |      |       |      |      |       |          |              |
|           | SHAKE            | 7.59 | 7.59 | 22.00 |      |      |       |          |              |
|           |                  | 6.18 |      |       |      |      |       |          |              |
|           |                  |      |      |       | 2.94 |      |       |          |              |
|           | TP#3             |      |      |       | 1.75 | 1.75 | 20.25 |          |              |
|           |                  |      |      |       | 0.55 |      |       |          |              |
|           |                  | 6.79 |      |       |      |      |       |          |              |
|           | SHAKE            | 6.42 | 6.42 | 26.67 |      |      |       |          |              |
|           |                  | 6.05 |      |       |      |      |       |          |              |
|           | NGS BM           |      |      |       | 6.25 |      |       |          | ERROR        |
|           | AF6781           |      |      |       | 5.60 | 5.60 | 21.07 | 21.08    | 0.00         |
|           | PINE RM 3        |      |      |       | 4.95 |      |       |          |              |
|           | WELL             | 4.40 |      |       |      |      |       |          | TOP OF PIPE  |
|           | M 1057           | 4.08 | 4.08 | 18.49 |      |      |       | 14.41    | WELL         |
|           |                  | 3.76 |      |       |      |      |       |          | M 1057       |
| (FB 2548, | BM               |      |      |       | 4.39 |      |       |          | SET SFWMD    |
| PG 32)    | DISC             |      |      |       | 4.16 | 4.16 | 14.33 |          | DISC STAMPED |
| 08/08/05  | M 1057           |      |      |       | 3.93 |      |       |          | M 1057 2005  |

LEVEL RUN NGVD29

| DATE      | STA              | BS   | MEAN | HI    | FS   | MEAN | ELEV  | BM ELEV. | NOTES        |
|-----------|------------------|------|------|-------|------|------|-------|----------|--------------|
|           |                  |      |      |       |      |      |       | NAVD-88  |              |
| 08/08/05  | NGS BM           | 8.08 |      |       |      |      |       |          |              |
| (FB 2548, | AF7555           | 6.56 | 6.56 | 12.86 |      |      |       | 6.30     |              |
| PG 30...) | 872 2414 H TIDAL | 5.03 |      |       |      |      |       |          |              |
|           |                  |      |      |       | 7.81 |      |       |          |              |
|           | TP#1             |      |      |       | 5.35 | 5.35 | 7.51  |          |              |
|           |                  |      |      |       | 2.89 |      |       |          |              |
|           |                  | 9.84 |      |       |      |      |       |          |              |
|           | SHAKE            | 8.25 | 8.25 | 15.76 |      |      |       |          |              |
|           |                  | 6.66 |      |       |      |      |       |          |              |
|           |                  |      |      |       | 3.77 |      |       |          |              |
|           | TP#2             |      |      |       | 1.98 | 1.98 | 13.78 |          |              |
|           |                  |      |      |       | 0.19 |      |       |          |              |
|           |                  | 6.49 |      |       |      |      |       |          |              |
|           | SHAKE            | 6.11 | 6.11 | 19.89 |      |      |       |          |              |
|           |                  | 5.73 |      |       |      |      |       |          |              |
|           | WELL             |      |      |       | 4.33 |      |       |          | TOP OF PIPE  |
|           | M 1057           |      |      |       | 3.99 | 3.99 | 15.90 |          | WELL         |
|           |                  |      |      |       | 3.66 |      |       |          | M 1057       |
|           |                  | 9.00 |      |       |      |      |       |          |              |
|           | SHAKE            | 7.59 | 7.59 | 23.49 |      |      |       |          |              |
|           |                  | 6.18 |      |       |      |      |       |          |              |
|           |                  |      |      |       | 2.94 |      |       |          |              |
|           | TP#3             |      |      |       | 1.75 | 1.75 | 21.74 |          |              |
|           |                  |      |      |       | 0.55 |      |       |          |              |
|           |                  | 6.79 |      |       |      |      |       |          |              |
|           | SHAKE            | 6.42 | 6.42 | 28.16 |      |      |       |          |              |
|           |                  | 6.05 |      |       |      |      |       |          |              |
|           | NGS BM           |      |      |       | 6.25 |      |       |          | ERROR        |
|           | AF6781           |      |      |       | 5.60 | 5.60 | 22.56 | 22.57    | 0.01         |
|           | PINE RM 3        |      |      |       | 4.95 |      |       |          |              |
|           | WELL             | 4.40 |      |       |      |      |       |          | TOP OF PIPE  |
|           | M 1057           | 4.08 | 4.08 | 19.98 |      |      |       | 15.90    | WELL         |
|           |                  | 3.76 |      |       |      |      |       |          | M 1057       |
| (FB 2548, | BM               |      |      |       | 4.39 |      |       |          | SET SFWMD    |
| PG 32)    | DISC             |      |      |       | 4.16 | 4.16 | 15.82 |          | DISC STAMPED |
| 08/08/05  | M 1057           |      |      |       | 3.93 |      |       |          | M 1057 2005  |